THE CONNECTICUT PORTION

OF THE INTERSTATE RELIABILITY PROJECT

BY

THE CONNECTICUT LIGHT AND POWER COMPANY

VOLUME 9: ROUTE MAPS

DECEMBER 2011

VOLUME 9: ROUTE MAPS

EX. 1: Overview of Route on USGS Map

EX. 2: Proposed Route Aerial Photographs – 400 Scale

EX. 2A: Mansfield Hollow Configuration Options Aerial Photographs – 400 Scale

No ROW Expansion Option

Minimal ROW Expansion Option

EX. 3: Variations Aerial Photographs – 400 Scale

INTRODUCTION

This volume provides maps that identify both the regional setting and the land use / environmental characteristics of the 36.8-mile Proposed Route that The Connecticut Light and Power Company (CL&P) has identified for the new 345-kV transmission lines and related facilities comprising the Connecticut portion of the Interstate Reliability Project (Project).[1] The volume also includes maps that identify the same information for the overhead transmission line configuration options that CL&P has identified across approximately 1.4 miles of federally-owned lands in the Mansfield Hollow area, as well as for the six variations that CL&P has identified to portions of the Proposed Route.

CL&P's Proposed Route, along which the new 345-kV transmission lines would be constructed and operated in overhead configurations, would follow existing CL&P rights-of-way (ROWs) extending between CL&P's existing Card Street Substation in the Town of Lebanon, Lake Road Switching Station in the Town of Killingly, and the Connecticut / Rhode Island border in the Town of Thompson.[1] At the Connecticut / Rhode Island border, the proposed CL&P 345-kV transmission line would connect to a new 345-kV transmission line extending into Rhode Island, to be constructed and operated by National Grid, USA. In conjunction with the development of the new 345-kV transmission lines in Connecticut, CL&P would modify the existing Card Street Substation, Lake Road Switching Station, and Killingly Substation. (Refer to Volume 1 for details regarding the Proposed Route and transmission line facilities, as well as the transmission line configuration options in the Mansfield Hollow area.)

As part of the Project planning process, CL&P identified not only the Proposed Route and Mansfield Hollow configuration options, but also six variations to portions of the Proposed Route. As described in Volume 1A, these variations, which would involve different transmission line routes (e.g., not along CL&P's existing ROWs) or configurations (e.g., underground 345-kV cable systems), were evaluated and compared to the portions of the Proposed Route that each would replace.

The following maps are included in this volume:

- **Exhibit 1: U.S. Geological Survey Maps**. These topographic maps (at a scale of 1" = 2,000') illustrate the general locations of the proposed Project facilities and variations.

- **Exhibit 2: Proposed Route Maps**. These aerial photography-based maps (at a scale of 1" = 400'[2]) identify the location of the Proposed Route along CL&P's existing ROWs; depict existing and proposed transmission line structures; and illustrate environmental, social, and land use features (e.g., town boundaries, zoning, water resources, vegetative cover types, forests, parks, other recreational areas, historic areas, and settled areas). Each aerial map is accompanied by explanatory data (on the page facing the map) that summarizes the primary environmental and land use characteristics of the ROW and surrounding region within the map viewing area. The page facing the map also includes a cross-section illustrating the configuration of the existing and proposed transmission lines within the ROW, as applicable to the map segment. *(Note: Cross-section drawings also are included in Volume 1, Section 3, Appendix 3A and Volume 10.)*

- **Exhibit 2A: Mansfield Hollow Configuration Option Maps**. These aerial-photography-based maps (also at a scale of 1"=400') provide the same types of data as presented for the Proposed Route, identifying the ROW widths, structure locations, and environmental, social, and land use features in the vicinity of each of the two configuration options identified for the 1.4 miles across the federally-owned lands in the Mansfield Hollow area (towns of Mansfield and Chaplin) as described in Volume 1, Section 10. Cross-sections also are included for each configuration option.

- **Exhibit 3: Variation Maps**. For each of the six variations, these aerial photography-based maps (also at a scale of 1"=400') provide the same data as presented for the Proposed Route, including cross-sections. *(Note: Cross-section drawings also are included in Volume 1A, Section 15, Appendix 15B.)*

Indices to Exhibits 2, 2A, and 3 provide a key to the maps by town and (as applicable) existing transmission line structure locations.

---

[1] The proposed 345-kV transmission line between Card Street Substation and Lake Road Switching Station is designated as the 3271 Line, whereas the proposed 345-kV line between Lake Road Swtitching Station and the Rhode Island border is designated as the 341 Line.

[2] Aerial photographs were derived from 2010 aerial imagery; environmental and land use features are mapped based on 2010 Geographical Information System data obtained from federal and state agencies (such as the Connecticut Department of Energy and Environmental Protection (CT DEEP) and the Federal Emergency Management Agency (FEMA)), as well as the results of environmental and engineering field surveys and ROW / transmission lines locational information from CL&P.

EX. 1: Overview of Route on USGS Map

United States Geological Survey Topographic Map Symbols

BATHYMETRIC FEATURES

- Area exposed at mean low tide; sounding datum line***
- Channel***
- Sunken rock***

BOUNDARIES

- National
- State or territorial
- County or equivalent
- Civil township or equivalent
- Incorporated city or equivalent
- Federally administered park, reservation, or monument (external)
- Federally administered park, reservation, or monument (internal)
- State forest, park, reservation, or monument and large county park
- Forest Service administrative area*
- Forest Service ranger district*
- National Forest System land status, Forest Service lands*
- National Forest System land status, non-Forest Service lands*
- Small park (county or city)

BUILDINGS AND RELATED FEATURES

- Building
- School; house of worship
- Athletic field
- Built-up area
- Forest headquarters*
- Ranger district office*
- Guard station or work center*
- Racetrack or raceway
- Airport, paved landing strip, runway, taxiway, or apron
- Unpaved landing strip
- Well (other than water), windmill or wind generator
- Tanks
- Covered reservoir
- Gaging station
- Located or landmark object (feature as labeled)
- Boat ramp or boat access*
- Roadside park or rest area
- Picnic area
- Campground
- Winter recreation area*
- Cemetery

COASTAL FEATURES

- Foreshore flat
- Coral or rock reef
- Rock, bare or awash; dangerous to navigation
- Group of rocks, bare or awash
- Exposed wreck
- Depth curve; sounding
- Breakwater, pier, jetty, or wharf
- Seawall
- Oil or gas well; platform

CONTOURS

Topographic

- Index
- Approximate or indefinite
- Intermediate
- Approximate or indefinite
- Supplementary
- Depression
- Cut
- Fill
- Continental divide

Bathymetric

- Index***
- Intermediate***
- Index primary***
- Primary***
- Supplementary***

CONTROL DATA AND MONUMENTS

- Principal point**
- U.S. mineral or location monument
- River mileage marker

Boundary monument

- Third-order or better elevation, with tablet
- Third-order or better elevation, recoverable mark, no tablet
- With number and elevation

Horizontal control

- Third-order or better, permanent mark
- With third-order or better elevation
- With checked spot elevation
- Coincident with found section corner
- Unmonumented**

CONTROL DATA AND MONUMENTS – *continued*

Vertical control

- Third-order or better elevation, with tablet
- Third-order or better elevation, recoverable mark, no tablet
- Bench mark coincident with found section corner
- Spot elevation

GLACIERS AND PERMANENT SNOWFIELDS

- Contours and limits
- Formlines
- Glacial advance
- Glacial retreat

LAND SURVEYS

Public land survey system

- Range or Township line
  - Location approximate
  - Location doubtful
  - Protracted
  - Protracted (AK 1:63,360-scale)
  - Range or Township labels
- Section line
  - Location approximate
  - Location doubtful
  - Protracted
  - Protracted (AK 1:63,360-scale)
  - Section numbers
- Found section corner
- Found closing corner
- Witness corner
- Meander corner
- Weak corner*

Other land surveys

- Range or Township line
- Section line
- Land grant, mining claim, donation land claim, or tract
- Land grant, homestead, mineral, or other special survey monument
- Fence or field lines

MARINE SHORELINES

- Shoreline
- Apparent (edge of vegetation)***
- Indefinite or unsurveyed

MINES AND CAVES

- Quarry or open pit mine
- Gravel, sand, clay, or borrow pit
- Mine tunnel or cave entrance
- Mine shaft
- Prospect
- Tailings
- Mine dump
- Former disposal site or mine

PROJECTION AND GRIDS

- Neatline
- Graticule tick
- Graticule intersection
- Datum shift tick

State plane coordinate systems

- Primary zone tick
- Secondary zone tick
- Tertiary zone tick
- Quaternary zone tick
- Quintary zone tick

Universal transverse metcator grid

- UTM grid (full grid)
- UTM grid ticks*

RAILROADS AND RELATED FEATURES

- Standard guage railroad, single track
- Standard guage railroad, multiple track
- Narrow guage railroad, single track
- Narrow guage railroad, multiple track
- Railroad siding
- Railroad in highway
  Railroad in road
  Railroad in light duty road*
- Railroad underpass; overpass
- Railroad bridge; drawbridge
- Railroad tunnel
- Railroad yard
- Railroad turntable; roundhouse

RIVERS, LAKES, AND CANALS

- Perennial stream
- Perennial river
- Intermittent stream
- Intermittent river
- Disappearing stream
- Falls, small
- Falls, large
- Rapids, small
- Rapids, large
- Masonry dam
- Dam with lock
- Dam carrying road

Source: USGS Website; erg.usgs.gov/isb/pubs/booklets/symbols

United States Geological Survey Topographic Map Symbols (continued)

RIVERS, LAKES, AND CANALS – *continued*

- Perennial lake/pond
- Intermittent lake/pond
- Dry lake/pond (Dry Lake)
- Narrow wash
- Wide wash (Wash)
- Canal, flume, or aqueduct with lock
- Elevated aqueduct, flume, or conduit
- Aqueduct tunnel
- Water well, geyser, fumarole, or mud pot
- Spring or seep

ROADS AND RELATED FEATURES

Please note: Roads on Provisional-edition maps are not classified as primary, secondary, or light duty. These roads are all classified as improved roads and are symbolized the same as light duty roads.

- Primary highway
- Secondary highway
- Light duty road
- Light duty road, paved*
- Light duty road, gravel*
- Light duty road, dirt*
- Light duty road, unspecified*
- Unimproved road
- Unimproved road*
- 4WD road
- 4WD road*
- Trail
- Highway or road with median strip
- Highway or road under construction (Under Const)
- Highway or road underpass; overpass
- Highway or road bridge; drawbridge
- Highway or road tunnel
- Road block, berm, or barrier*
- Gate on road*
- Trailhead* (TH)

SUBMERGED AREAS AND BOGS

- Marsh or swamp
- Submerged marsh or swamp
- Wooded marsh or swamp
- Submerged wooded marsh or swamp
- Land subject to inundation (Max Pool 431)

SURFACE FEATURES

- Levee (Levee)
- Sand or mud (Sand)
- Disturbed surface
- Gravel beach or glacial moraine (Gravel)
- Tailings pond (Tailings Pond)

TRANSMISSION LINES AND PIPELINES

- Power transmission line; pole; tower
- Telephone line (Telephone)
- Aboveground pipeline
- Underground pipeline (Pipeline)

VEGETATION

- Woodland
- Shrubland
- Orchard
- Vineyard
- Mangrove (Mangrove)

* USGS-USDA Forest Service Single-Edition Quadrangle maps only.
In August 1993, the U.S. Geological Survey and the U.S. Department of Agriculture's Forest Service signed an Interagency Agreement to begin a single-edition joint mapping program. This agreement established the coordination for producing and maintaining single-edition primary series topographic maps for quadrangles containing National Forest System lands. The joint mapping program eliminates duplication of effort by the agencies and results in a more frequent revision cycle for quadrangles containing National Forests. Maps are revised on the basis of jointly developed standards and contain normal features mapped by the USGS, as well as additional features required for efficient management of National Forest System lands. Single-edition maps look slightly different but meet the content, accuracy, and quality criteria of other USGS products.

** Provisional-Edition maps only.
Provisional-edition maps were established to expedite completion of the remaining large-scale topographic quadrangles of the conterminous United States. They contain essentially the same level of information as the standard series maps. This series can be easily recognized by the title "Provisional Edition" in the lower right-hand corner.

*** Topographic Bathymetric maps only.

Topographic Map Information

For more information about topographic maps produced by the USGS, please call: 1-888-ASK-USGS or visit us at http://ask.usgs.gov/

Source: USGS Website; erg.usgs.gov/isb/pubs/booklets/symbols

Match Line (Sheet 2 of 9)

Babcock Hill Junction

Proposed Route

Card Street Substation

Hop River Water Access

Willimantic River Water Access

Hop River State Park Trail

Airline State Park Trail

Willimantic South Underground Variation

Willimantic South Overhead Variation

Little Lights Christian Learning Center

Windham Hospital

Pomeroy State Park Scenic Reserve

Shetucket River Water Access

Match Line (Sheet 3 of 9)

Coventry

Mansfield

Columbia

Lebanon

Windham

WILLIMANTIC

Hosmer Mtn

Natchaug River

Key Map

Union

Woodstock

Thompson

9 of 9

8 of 9

Putnam

Ellington

Tolland

Willington

Ashford

Eastford

Pomfret

7 of 9

Killingly

6 of 9

Hampton

Chaplin

Mansfield

Coventry

5 of 9

Brooklyn

2 of 9

4 of 9

Andover

1 of 9

Windham

3 of 9

Scotland

Canterbury

Columbia

Lebanon

Plainfield

Sterling

Rhode Island

Connecticut

NORTH

0 1,000 2,000 Feet

- Substation or Switching Station
- Transmission Line Junction
- Statutory Facility: (Playgrounds & Group/Family Day Cares)
- Hospital
- Proposed 345-kV Transmission Line Route
- 345-kV Overhead Variation
- 345-kV Underground Variation
- Town Boundary
- NU Property
- Trail
- Potential Line Transition Station Site Required for Underground Variation (2-4 Acres)

Source: USGS 7.5-Minute Quadrangles, CT DEEP, ESRI and Burns & McDonnell Engineering.

Note: Scale is 1" = 2,000' (1:24,000) when printed at 11" x 17".

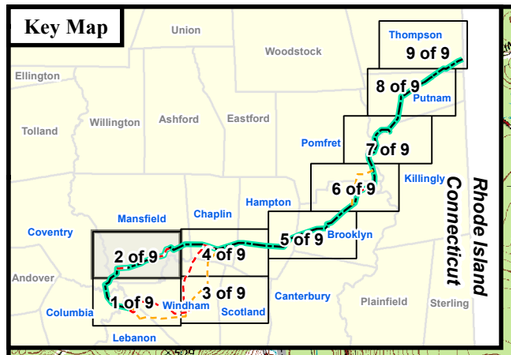
Connecticut Light & Power

A Northeast Utilities Company

Interstate Reliability Project
USGS Maps
Proposed Line Route and Variations
Sheet 1 of 9

Issued: December, 2011

\\46043_Interstate_345kV\Environmental\GIS\DataFiles\ArcDocs\CSC_Application\2011_Updates\CSC_Application_IRP_11x17_RouteOptions_DRGs_2011_Dec.mxd



NORTH

0 1,000 2,000 Feet

- Substation or Switching Station
- Transmission Line Junction
- Statutory Facility: (Playgrounds & Group/Family Day Cares)
- Hospital
- Proposed 345-kV Transmission Line Route
- 345-kV Overhead Variation
- 345-kV Underground Variation
- Town Boundary
- NU Property
- Trail
- Potential Line Transition Station Site Required for Underground Variation (2-4 Acres)

Source: USGS 7.5-Minute Quadrangles, CT DEEP, ESRI and Burns & McDonnell Engineering.

Note: Scale is 1" = 2,000' (1:24,000) when printed at 11" x 17".

Connecticut Light & Power
A Northeast Utilities Company

Interstate Reliability Project
USGS Maps
Proposed Line Route and Variations
Sheet 2 of 9

Issued: December, 2011

\\46043_Interstate_345kV\Environmental\GIS\DataFiles\ArcDocs\CSC_Application\2011_Updates\CSC_Application_IRP_11x17_RouteOptions_DRGs_2011_Dec.mxd

Natchaug State Forest

Match Line (Sheet 4 of 9)

Beaver Brook State Park Scenic Reserve

Willimantic South Underground Variation

Willimantic South Overhead Variation

Windham

Windham Center School & Playground

Residential Day Care

Residential Day Care

Match Line (Sheet 1 of 9)

Pudding Hill

Pudding Hill Wildlife Area

James T. Spignesi Wildlife Management Area

Talbot Wildlife Area

Scotland

Scotland

Key Map

Union
Woodstock
Thompson
9 of 9
8 of 9
Putnam
Ellington
Tolland
Willington
Ashford
Eastford
Pomfret
7 of 9
Killingly
6 of 9
Hampton
Chaplin
Mansfield
Coventry
5 of 9
Brooklyn
2 of 9
4 of 9
Andover
1 of 9
Windham
3 of 9
Scotland
Canterbury
Columbia
Plainfield
Sterling
Lebanon
Rhode Island
Connecticut

NORTH

0 1,000 2,000 Feet

- Substation or Switching Station
- Transmission Line Junction
- Statutory Facility: (Playgrounds & Group/Family Day Cares)
- Hospital
- Proposed 345-kV Transmission Line Route
- 345-kV Overhead Variation
- 345-kV Underground Variation
- Town Boundary
- NU Property
- Trail
- Potential Line Transition Station Site Required for Underground Variation (2-4 Acres)

Source: USGS 7.5-Minute Quadrangles, CT DEEP, ESRI and Burns & McDonnell Engineering.

Note: Scale is 1" = 2,000' (1:24,000) when printed at 11" x 17".

Connecticut Light & Power
A Northeast Utilities Company

Interstate Reliability Project
USGS Maps
Proposed Line Route and Variations
Sheet 3 of 9

Issued: December, 2011

\\46043_Interstate_345kV\Environmental\GIS\DataFiles\ArcDocs\CSC_Application\2011_Updates\CSC_Application_IRP_11x17_RouteOptions_DRGs_2011_Dec.mxd

Proposed Route

Willimantic South Underground Variation

Potential Line Transition Station: Willimantic South Underground Variation

Proposed Route

Willimantic South Underground Variation

Willimantic South Overhead Variation

Match Line (Sheet 2 of 9)

Match Line (Sheet 5 of 9)

Match Line (Sheet 3 of 9)

Bedlam Corner

Dianas Pool Water Access

South Chaplin

Clark Hill

James L. Goodwin State Forest

Airline State Park Trail (North Section)

Chaplin

Sherman Corner

Natchaug State Forest

Mansfield Hollow Wildlife Management Area

Mansfield Hollow State Park

Mansfield Hollow Wildlife Area

Carelot Children's Center

North Windham

Windham

Beaver Brook State Park Scenic Reserve

Chewink Cem

Parish Hill

Scotland

Hampton

North Windham Elementary School & Playground

Residential Day Care

Key Map

Thompson

Union

Woodstock

Ellington

Tolland

Willington

Ashford

Eastford

Pomfret

Putnam

Killingly

Mansfield

Chaplin

Hampton

Coventry

Brooklyn

Andover

Columbia

Windham

Scotland

Canterbury

Plainfield

Sterling

Lebanon

9 of 9

8 of 9

7 of 9

6 of 9

5 of 9

4 of 9

3 of 9

2 of 9

1 of 9

Connecticut

Rhode Island

NORTH

0 1,000 2,000 Feet

- Substation or Switching Station
- Transmission Line Junction
- Statutory Facility: (Playgrounds & Group/Family Day Cares)
- Hospital
- Proposed 345-kV Transmission Line Route
- 345-kV Overhead Variation
- 345-kV Underground Variation
- Town Boundary
- NU Property
- Trail
- Potential Line Transition Station Site Required for Underground Variation (2-4 Acres)

Source: USGS 7.5-Minute Quadrangles, CT DEEP, ESRI and Burns & McDonnell Engineering.

Note: Scale is 1" = 2,000' (1:24,000) when printed at 11" x 17".

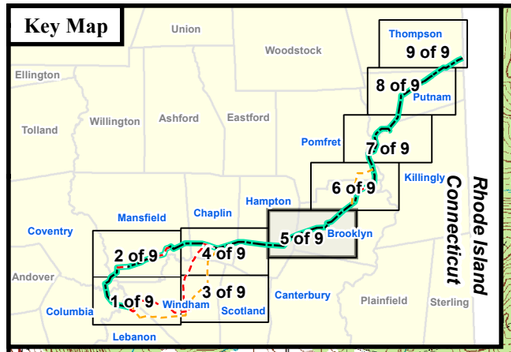
Connecticut Light & Power

A Northeast Utilities Company

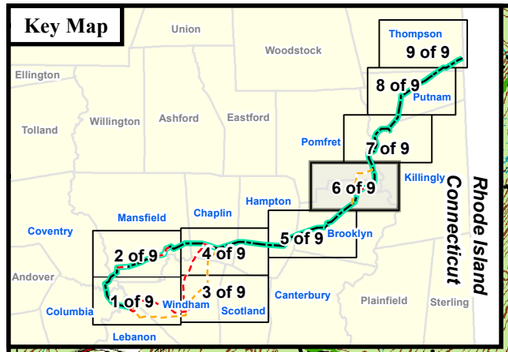
Interstate Reliability Project
USGS Maps
Proposed Line Route and Variations
Sheet 4 of 9

Issued: December, 2011

\\46043_Interstate_345kV\Environmental\GIS\DataFiles\ArcDocs\CSC_Application\2011_Updates\CSC_Application_IRP_11x17_RouteOptions_DRGs_2011_Dec.mxd



Match Line (Sheet 6 of 9)
Alworth Hill
Stetson Cem
Corner
Proposed Route
Hampton
Bigelow Pond Water Access
Bigelow Pond
Litchfield Cems
Little River
Howard Valley
Match Line (Sheet 4 of 9)
STATE WILDLIFE
Little River Wildlife Area
Canterbury
Gray Mare Hill
Brooklyn
Stony Brook
Tatnic Hill
Tatnic
Blackwell
Mason Hill
Bussel Pond
South Cem
Creamery
Trip Hill
Trip Hollow
Jamie
Kelly
Spring
Pine Grove Cem
Wyndham
Preston
Robbins
Grant Hill
Woodward
Cherry
Pearl
Laurel
Fox
Gully
Stony
Hand
Bryan
Stetson
Brook
Kelly
Hollow
Road
Street
Hill
Pond
River
Creek
Cem
Hollow
Valley
Mountain
Hollow
Hill
Brook



NORTH

0 1,000 2,000 Feet

- Substation or Switching Station
- Transmission Line Junction
- Statutory Facility: (Playgrounds & Group/Family Day Cares)
- Hospital
- Proposed 345-kV Transmission Line Route
- 345-kV Overhead Variation
- 345-kV Underground Variation
- Town Boundary
- NU Property
- Trail
- Potential Line Transition Station Site Required for Underground Variation (2-4 Acres)

Source: USGS 7.5-Minute Quadrangles, CT DEEP, ESRI and Burns & McDonnell Engineering.

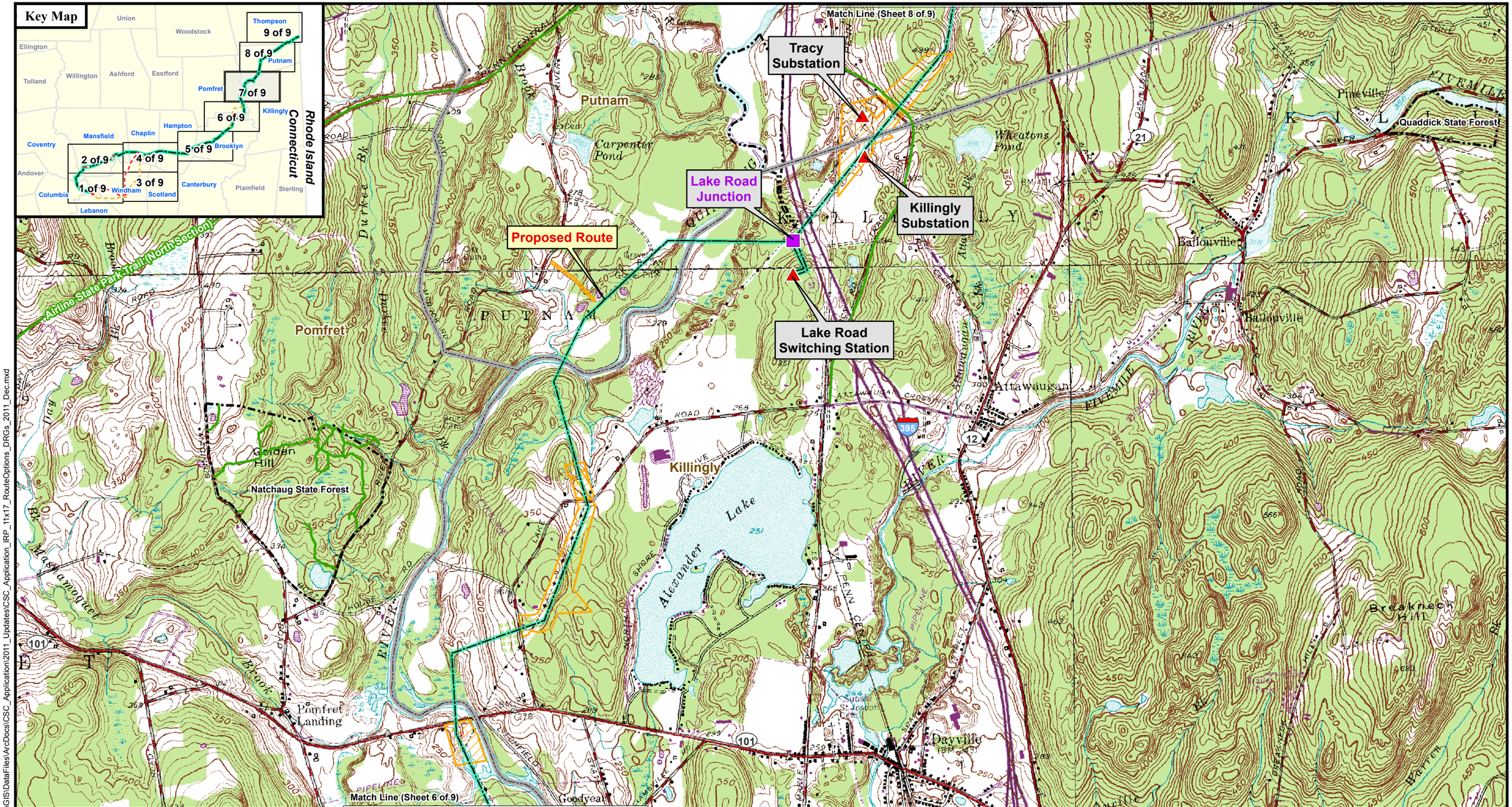
Note: Scale is 1" = 2,000' (1:24,000) when printed at 11" x 17".

Connecticut Light & Power
A Northeast Utilities Company

Interstate Reliability Project
USGS Maps
Proposed Line Route and Variations
Sheet 6 of 9

Issued: December, 2011

\\46043_Interstate_345kV\Environmental\GIS\DataFiles\ArcDocs\CSC_Application\2011_Updates\CSC_Application_IRP_11x17_RouteOptions_DRGs_2011_Dec.mxd



Source: USGS 7.5-Minute Quadrangles, CT DEEP, ESRI and Burns & McDonnell Engineering.

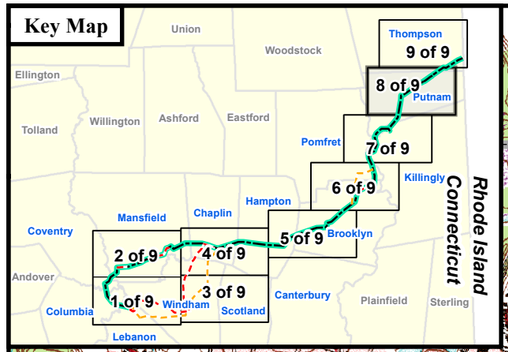
Note: Scale is 1" = 2,000' (1:24,000) when printed at 11" x 17".

Connecticut Light & Power
A Northeast Utilities Company

Interstate Reliability Project
USGS Maps
Proposed Line Route and Variations
Sheet 7 of 9

Issued: December, 2011

\\46043_Interstate_345kV\Environmental\GIS\DataFiles\ArcDocs\CSC_Application\2011_Updates\CSC_Application_IRP_11x17_RouteOptions_DRGs_2011_Dec.mxd



NORTH

0 1,000 2,000 Feet

- Substation or Switching Station
- Transmission Line Junction
- Statutory Facility: (Playgrounds & Group/Family Day Cares)
- Hospital
- Proposed 345-kV Transmission Line Route
- 345-kV Overhead Variation
- 345-kV Underground Variation
- Town Boundary
- NU Property
- Trail
- Potential Line Transition Station Site Required for Underground Variation (2-4 Acres)

Source: USGS 7.5-Minute Quadrangles, CT DEEP, ESRI and Burns & McDonnell Engineering.

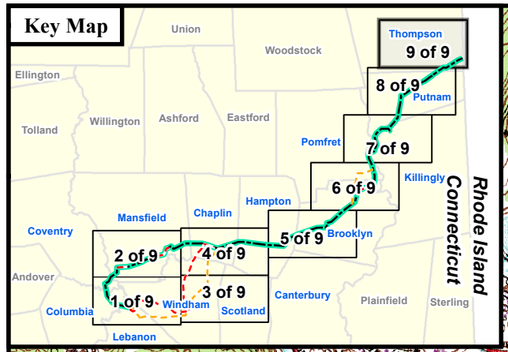
Note: Scale is 1" = 2,000' (1:24,000) when printed at 11" x 17".

Connecticut Light & Power
A Northeast Utilities Company

Interstate Reliability Project
USGS Maps
Proposed Line Route and Variations
Sheet 8 of 9

Issued: December, 2011

\\46043_Interstate_345kV\Environmental\GIS\DataFiles\ArcDocs\CSC_Application\2011_Updates\CSC_Application_IRP_11x17_RouteOptions_DRGs_2011_Dec.mxd



NORTH

0 1,000 2,000 Feet

- Substation or Switching Station
- Transmission Line Junction
- Statutory Facility: (Playgrounds & Group/Family Day Cares)
- Hospital
- Proposed 345-kV Transmission Line Route
- 345-kV Overhead Variation
- 345-kV Underground Variation
- Town Boundary
- NU Property
- Trail
- Potential Line Transition Station Site Required for Underground Variation (2-4 Acres)

Source: USGS 7.5-Minute Quadrangles, CT DEEP, ESRI and Burns & McDonnell Engineering.

Note: Scale is 1" = 2,000' (1:24,000) when printed at 11" x 17".

Connecticut Light & Power
A Northeast Utilities Company

Interstate Reliability Project
USGS Maps
Proposed Line Route and Variations
Sheet 9 of 9

Issued: December, 2011

\\46043_Interstate_345kV\Environmental\GIS\DataFiles\ArcDocs\CSC_Application\2011_Updates\CSC_Application_IRP_11x17_RouteOptions_DRGs_2011_Dec.mxd

EX. 2: Proposed Route Aerial Photographs – 400 Scale

INDEX
EXHIBIT 2
INTERSTATE RELIABILITY PROJECT PROPOSED ROUTE: CONNECTICUT

Mapsheet	Town(s)	Existing Structure Numbers
1 of 40	Lebanon, Columbia	9001 to 9008
2 of 40	Columbia	9009 to 9017
3 of 40	Columbia, Coventry	9018 to 9024
4 of 40	Coventry	9025 to 9031
5 of 40	Coventry, Mansfield	9032 to 9038
6 of 40	Mansfield	9039 to 9051
7 of 40	Mansfield	9052 to 9064
8 of 40	Mansfield	9065 to 9076
9 of 40	Mansfield	9077 to 9086
10 of 40	Mansfield, Chaplin	9087 to 9096
11 of 40	Chaplin	9097 to 9107
12 of 40	Chaplin	9108 to 9115
13 of 40	Chaplin, Hampton	9116 to 9125
14 of 40	Hampton	9126 to 9135
15 of 40	Hampton	9136 to 9145
16 of 40	Hampton	9146 to 9154
17 of 40	Hampton, Brooklyn	9155 to 9162
18 of 40	Brooklyn	9163 to 9171
19 of 40	Brooklyn	9172 to 9183
20 of 40	Brooklyn	9184 to 9190
21 of 40	Brooklyn	9191 to 9198

Mapsheet	Town(s)	Existing Structure Numbers
22 of 40	Brooklyn	9199 to 9203
23 of 40	Brooklyn	9204 to 9208
24 of 40	Brooklyn	9209 to 9221
25 of 40	Brooklyn, Pomfret	9222 to 9227
26 of 40	Pomfret	9228 to 9233
27 of 40	Pomfret, Killingly	9234 to 9239
28 of 40	Killingly	9240 to 9247
29 of 40	Killingly	9248 to 9253
30 of 40	Killingly, Putnam	9254 to 9259
31 of 40	Putnam, Killingly	9260 to 9269
32 of 40	Killingly, Putnam	9270 to 9275
33 of 40	Putnam	9276 to 9281
34 of 40	Putnam	9282 to 9286
35 of 40	Putnam	9287 to 9295
36 of 40	Putnam	9296 to 9303
37 of 40	Putnam	9304 to 9311
38 of 40	Putnam, Thompson	9312 to 9320
39 of 40	Thompson	9321 to 9328
40 of 40	Thompson	9329 to 9333

National Grid to Construct Rhode Island and Massachusetts Portions of the Interstate Reliability Project

Somers
Stafford
Union
Woodstock
Thompson
Ellington
Willington
Eastford
Tolland
Ashford
Pomfret
Putnam
Killingly
Connecticut
Rhode Island
Vernon
Coventry
Chaplin
Brooklyn
Hampton
Mansfield
Bolton
Andover
Columbia
Hebron
Windham
Scotland
Canterbury
Plainfield
Sterling
Lebanon

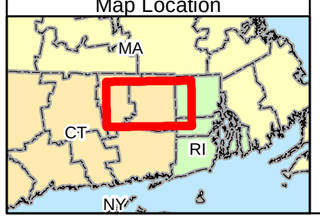
Killingly Substation
Lake Road Switching Station
Brooklyn Overhead Variation
Brooklyn Underground Variation
Mount Hope Underground Variation
Mansfield Underground Variation
Proposed Route
Willimantic South Overhead Variation
Willimantic South Underground Variation
Card Street Substation

Index Map

Refer to Exhibit 3 for mapsheets for each of the variations

Proposed Route - Sheets 1 to 40

Map Location



Legend

- Substation
- Switching Station
- Proposed 345-kV Line (Centerline)
- Willimantic South Overhead Variation
- Willimantic South Underground Variation
- Mansfield Underground Variation
- Mount Hope Underground Variation
- Brooklyn Overhead Variation
- Brooklyn Underground Variation

0 2.5 5 7.5 10 Miles

1 inch = 2.5 miles

Data Source: B&McD 2010, CT DEEP GIS

Interstate Reliability Project Proposed Route Index Map

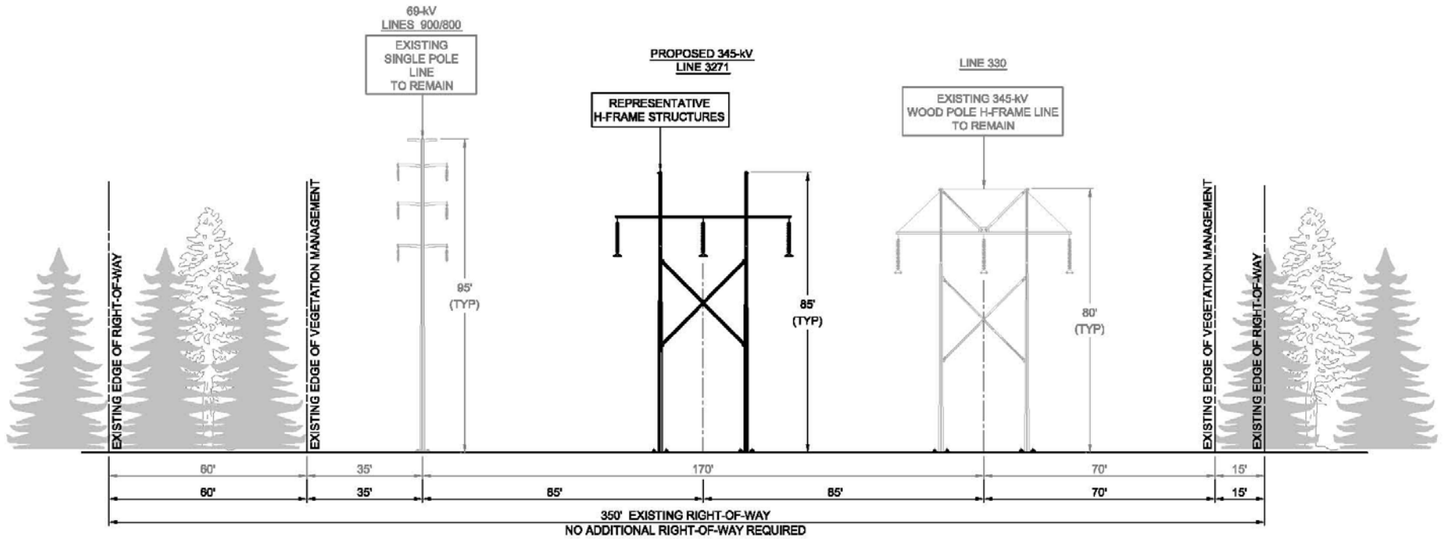
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 1 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9001 to 9008
Card Street Substation to Baker Hill Road
Towns of Lebanon, Columbia and Windham, CT



AREA DESCRIPTION

Existing Land Use
- Commercial/Industrial
- Residential
- Agricultural
- Connecticut (CT) Protected/Open Space (Airline State Park Trail (Southern Section) managed by the CT Department of Energy and Environmental Protection (CT DEEP))

Zoning
- Town of Columbia
  - Current:
    - Residential Agricultural (RA)
- Town of Lebanon
  - Current:
    - Residential Agricultural (RA)
  - Planned:
    - Rural Residential (RR)
    - Open Space (OS)
- Town of Windham
  - Current:
    - Residential (R-4)

Natural Systems
- Open water (ponds)
- Tenmile River and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- 100-year flood zone – Tenmile River

Visual Character
- Forest, residential, and agricultural

RIGHT-OF-WAY DESCRIPTION

Land Use
- Commercial/Industrial (Card Street Substation)
- Residential near structures 9004, 9007 and 9008
- CT Protected/Open Space - Airline State Park Trail (Southern Section) between structures 9004 and 9005
- Upland, shrubland, and/or wetland forest adjacent to structures 9001 to 9008

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-1, W20-2, W20-3, W20-4, W20-5, W20-6, W20-7, W21-15
- Wetland Cover Types: Palustrine Scrub Shrub (PSS), Palustrine Forested Wetlands (PFO), State Wetland (SW)
- Stream No.: S20-1 (Tenmile River)

Potential Access
- Structures 9001 to 9005 can be accessed from Card Street
- Structures 9006 to 9008 can be accessed from Baker Hill Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Hilly

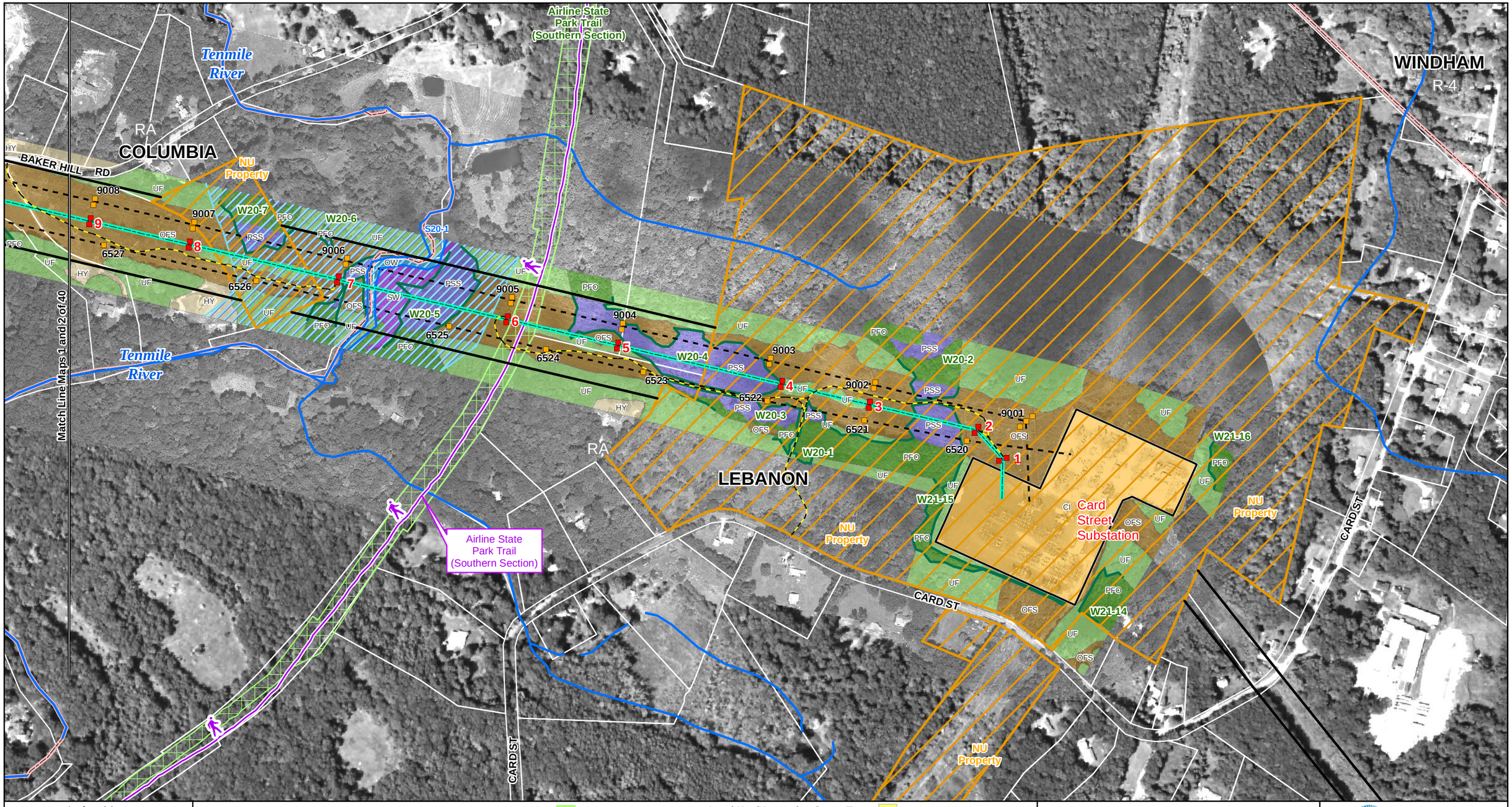
Existing Right-of-Way Width
- 350 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 275 feet

Additional Managed Right-of-Way Width Required
- 0 feet

Road Crossings/Major Utility Crossings
- None



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 1 of 40

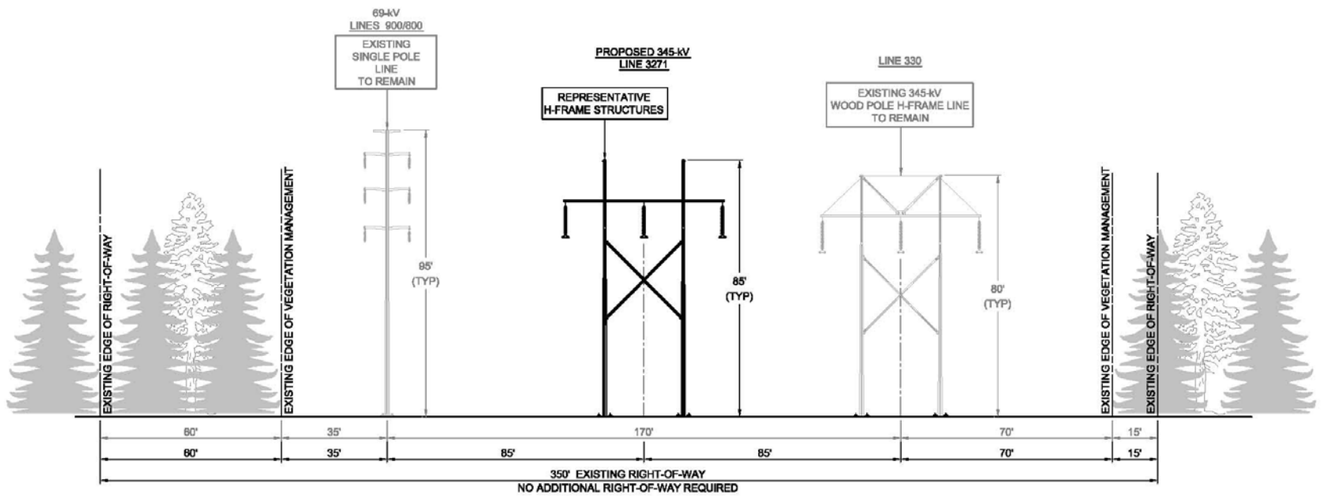
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 2 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9009 to 9017
Baker Hill Road to Old Willimantic Road
Town of Columbia, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential

Zoning
- Current:
  - Residential Agricultural (RA)
  - Manufacturing (M)
- Planned:
  - Residential (R)
  - Floodplain Conservation (FC)

Natural Systems
- Perennial streams and intermittent tributaries to the Tenmile River and its associated tributaries
- Open water (ponds)
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age

Visual Character
- Forest, agricultural, and residential

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9009 to 9011
- Upland, shrubland, and/or wetland forest adjacent to structures 9010 to 9013, 9015 to 9016

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-8, W20-9, W20-10, W20-11, W20-12, W20-13, W20-14, W20-15, W20-16, W20-17
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream Nos.: S20-1A, S20-1B, S20-3

Potential Access
- Structure 9009 can be accessed from Baker Hill Road
- Structures 9010 to 9014 can be accessed from Cards Mill Road
- Structures 9015 to 9017 can be accessed from Old Willimantic Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Hilly to steep

Existing Right-of-Way Width
- 350 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 275 feet

Additional Managed Right-of-Way Width Required
- 0 feet

Road Crossings/Major Utility Crossings
- Cards Mill Road between structures 9009 and 9010
- Old Willimantic Road between structures 9017 and 9018

Match Line Maps 2 and 3 of 40

OLD WILLIMANTIC RD

OLD WILLIMANTIC RD

GAULIN RD

COLUMBIA

RA

Glasser Pond

Match Line Maps 1 and 2 of 40

BAKER HILL RD

CARDS MILL RD

SCALISE DR

NU Property

W20-17 W20-16 W20-15 W20-14 W20-13 W20-12 W20-11 W20-10 W20-9 W20-8

S20-3 S20-1B S20-1A

19 18 17 16 15 14 13 12 11 10 9

6535 9017 9534 9016 6533 9015 9014 6532 9013 6531 9012 9011 6530 9010 6529 9009 6528 9008 6527

UF PFO PSS OFS HY PEM

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure (1)
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary (W20-1)
- Watercourse (S20-68)
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 2 of 40

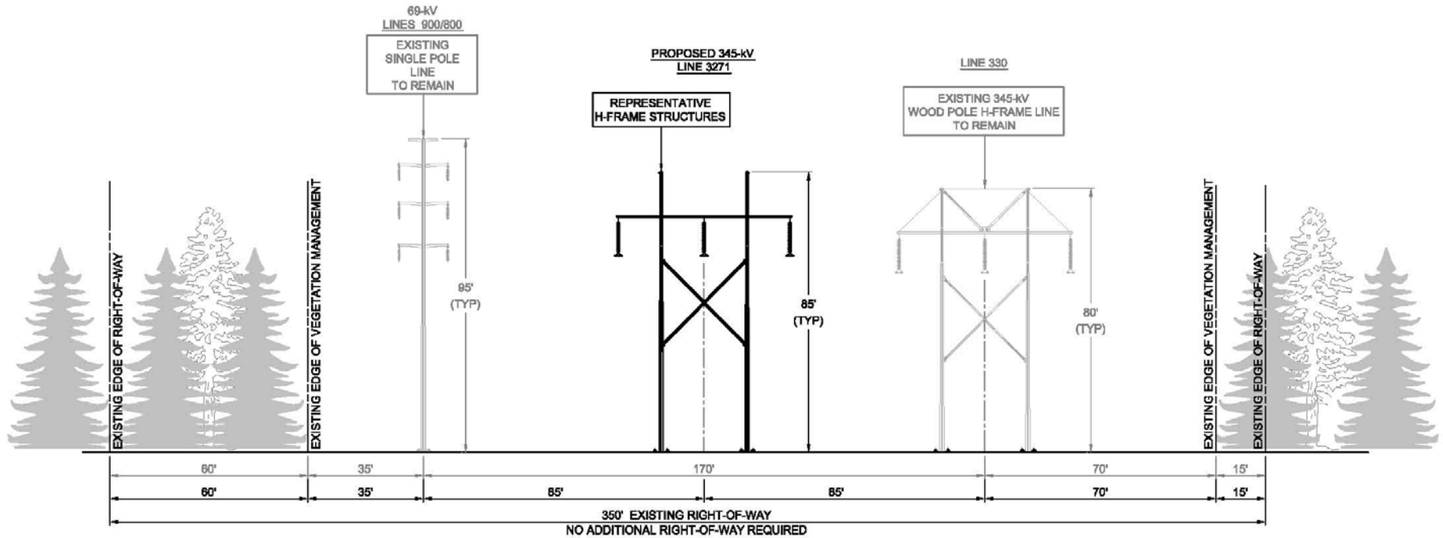
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 3 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9018 to 9024
Old Willimantic Road to U.S. Route 6
Towns of Columbia and Coventry, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Commercial/Industrial
- Agricultural
- CT Protected/Open Space (Joshua's Tract Conservation & Historic Land Trust, Inc. privately managed, and Hop River State Park Trail managed by the CT DEEP)

Zoning
- Town of Columbia
  - Current:
    - Residential Agricultural (RA)
    - Manufacturing (M)
    - Commercial (C)
  - Planned:
    - Business Zone (BZ)
    - Residential (R)
    - Floodplain Conservation (FC)
- Town of Coventry
  - Current:
    - Reserved Land Zone (RL)
    - River Aquifer Zone (RAZ)

Natural Systems
- Open water (ponds)
- Hop River and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- 100-year flood zone – Hop River
- Natural Diversity Data Base Area

Visual Character
- Residential, commercial/industrial, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Commercial/Industrial adjacent to structures 9022 to 9023
- Residential near structures 9019 to 9021
- CT Protected/Open Space - Hop River State Park Trail between structures 9023 and 9024
- Upland and/or wetland forest adjacent to structures 9018 to 9023, and 9024

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-16, W20-17, W20-18, W20-19, W20-20, W20-21, W20-22, W20-23, W20-24, W20-25
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream Nos.: S20-3, S20-2 (Hop River)

Potential Access
- Structures 9018 to 9020 can be accessed from Old Willimantic Road
- Structures 9021 to 9023 can be accessed from State Route 66/Willimantic Road
- Structure 9024 can be accessed from U.S. Route 6

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Broad hill tops to steep; floodplain

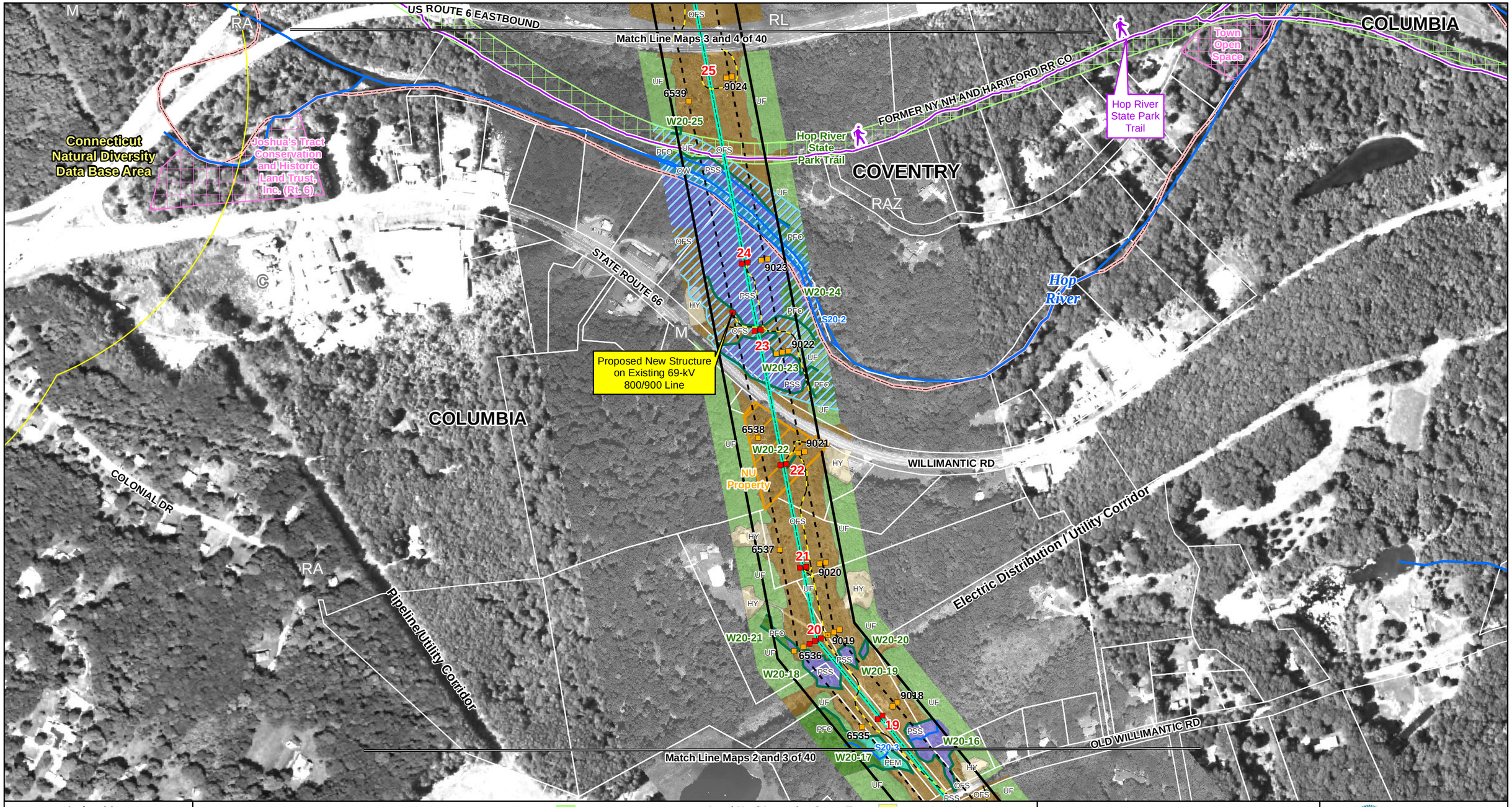
Existing Right-of-Way Width
- 350 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

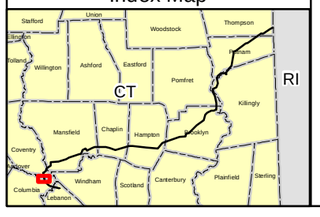
Existing Managed Right-of-Way Width
- 275 feet

Additional Managed Right-of-Way Width Required
- 0 feet

Road Crossings/Major Utility Crossings
- Old Willimantic Road between structures 9017 and 9018
- State Route 66/Willimantic Road between structures 9021 and 9022
- U.S. Route 6 between structures 9024 and 9025
- Electric Distribution Line/Utility Corridor between structures 9018 to 9019



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 3 of 40

Connecticut Light & Power
A Northeast Utilities Company

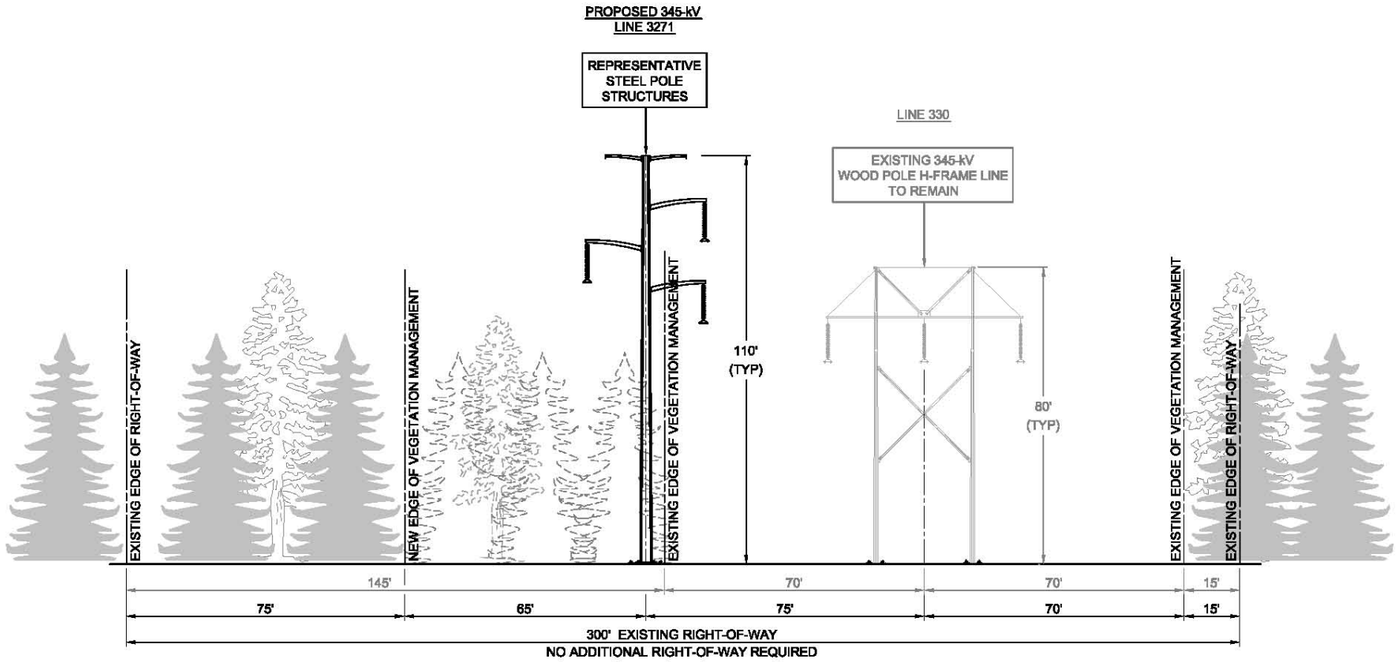
AECOM

Date: December 2011

MAPSHEET 4 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9025 to 9031
U.S. Route 6 to Flanders River Road
Town of Coventry, CT

Note: XS-2 BMP (depicted) applies to Proposed Route near Structures 9028 to 9031. Refer to XS-1 on Mapsheet 3 of 40 for depiction of Proposed Route from Structures 9025 to 9027.



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Joshua's Tract Conservation & Historic Land Trust privately managed, and Hop River State Park Trail managed by the CT DEEP)

Zoning
- Town of Columbia
  - Current:
    - Residential Agriculture (RA)
    - Manufacturing (M)
  - Planned:
    - Business Zone (BZ)
    - Floodplain Conservation (FC)
- Town of Coventry
  - Current:
    - Reserved Land Zone (RL)
    - Residential (RU-40)
    - River Aquifer Zone (RAZ)
- Town of Mansfield
  - Current:
    - Flood Hazard Zone (FH)

Natural Systems
- Willimantic River and its associated tributaries
- Hop River and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- 100-year flood zone – Willimantic River
- Stream Channel Encroachment Line – Willimantic River
- Natural Diversity Data Base Area

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9029 to 9030
- Agricultural adjacent to structures 9028 to 9029
- Upland and/or wetland forest adjacent to structures 9025 to 9031

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-26, W20-27, W20-28, W20-29
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)

Potential Access
- Structure 9025 can be accessed from U.S. Route 6
- Structures 9026 to 9031 can be accessed from Babcock Hill Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain
- Broad hill tops to steep

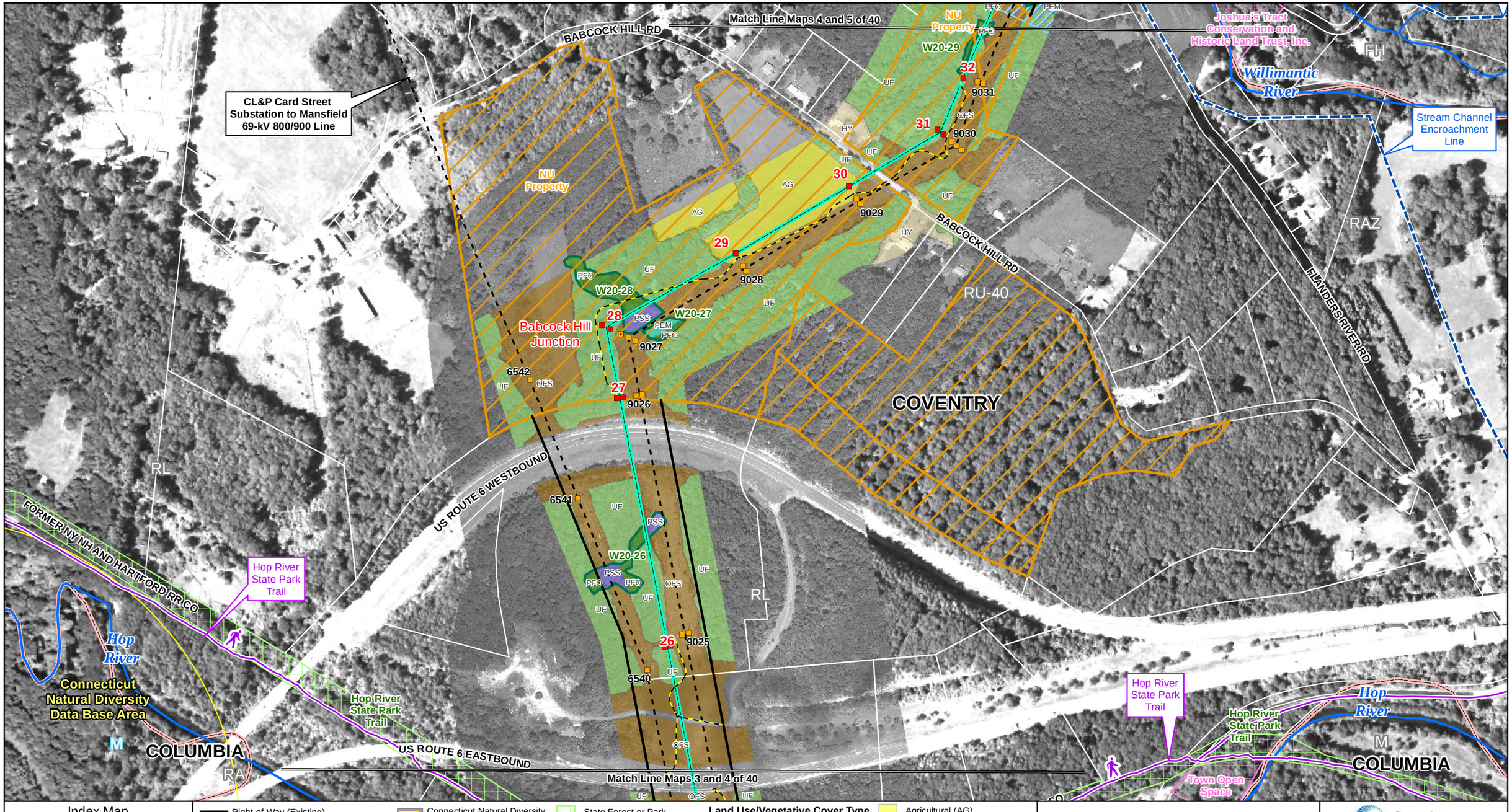
Existing Right-of-Way Width
- 300 to 350 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 140 to 275 feet

Additional Managed Right-of-Way Width Required
- 0 to 70 feet

Road Crossings/Major Utility Crossings
- U.S. Route 6 between structures 9024 and 9025, and 9025 and 9026
- Babcock Hill Road between structures 9029 and 9030



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 4 of 40

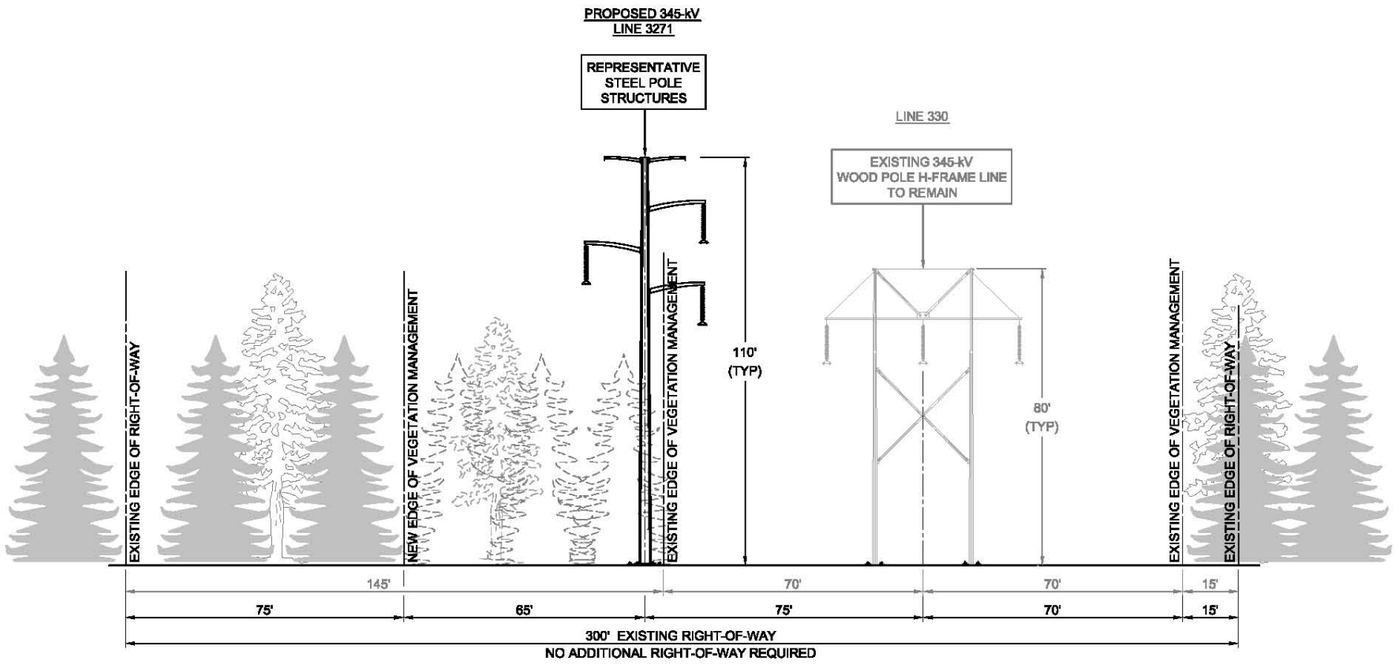
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 5 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9032 to 9038
Flanders River Road to East of State Route 32/Stafford Road
Towns of Coventry and Mansfield, CT



AREA DESCRIPTION

Existing Land Use

- Residential
- Agricultural
- Commercial/Industrial
- CT Protected/Open Space (Joshua's Tract Conservation & Historic Land Trust privately managed, Town Open Space (Flanders River Road) managed by the Town of Coventry, and Town Open Space (Stafford Road and Thornbush Road) managed by the Town of Mansfield)

Zoning

- Town of Coventry
  - Current:
    - River Aquifer Zone (RAZ)
    - Residential (RU-40)
- Town of Mansfield
  - Current:
    - Flood Hazard Zone (FH)
    - Residential (R-20)
    - Rural Agriculture Residence 40 Zone (RAR-40)
  - Planned:
    - Planned Business 5 Zone (PB-5)

Natural Systems

- Willimantic River and its associated tributaries
- State/Federal jurisdictional wetlands
- Perkins Corner Pond
- Natural Diversity Data Base Area
- Mixed hardwood forest of varying size and age
- 100-year flood zone – Willimantic River
- Stream Channel Encroachment Line – Willimantic River

Visual Character

- Residential, forest, agricultural, and commercial/industrial

RIGHT-OF-WAY DESCRIPTION

Land Use

- Residential near structures 9033, and 9036 to 9037
- CT Protected/Town Open Space adjacent to and/or between structures 9032 to 9034, and 9037
- Upland and/or wetland forest adjacent to structures 9032 to 9034, 9035 to 9036, 9037, and 9038

Wetlands, Watercourses and Waterbodies

- Wetland Nos.: W20-29, W20-30, W20-31, W20-32, W20-33, W20-34
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-4 (Willimantic River), S20-5

Potential Access

- Structures 9032 to 9034 can be accessed from Flanders River Road
- Structures 9035 to 9038 can be accessed from State Route 32/Stafford Road

Right-of-Way Vegetation

- Open field-shrub, upland and wetland forest, house/yard

Terrain

- Steep to hilly

Existing Right-of-Way Width

- 300 feet

Proposed Expansion of Right-of-Way Width

- 0 feet

Existing Managed Right-of-Way Width

- 140 to 300 feet

Additional Managed Right-of-Way Width Required

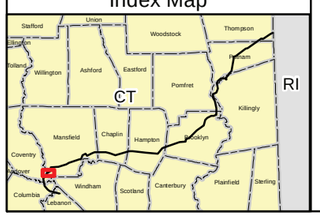
- 70 feet

Road Crossings/Major Utility Crossings

- Flanders River Road between structures 9031 and 9032
- State Route 32/Stafford Road between structures 9036 and 9037
- Railroad between structures 9034 to 9035



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 5 of 40

Connecticut Light & Power
A Northeast Utilities Company

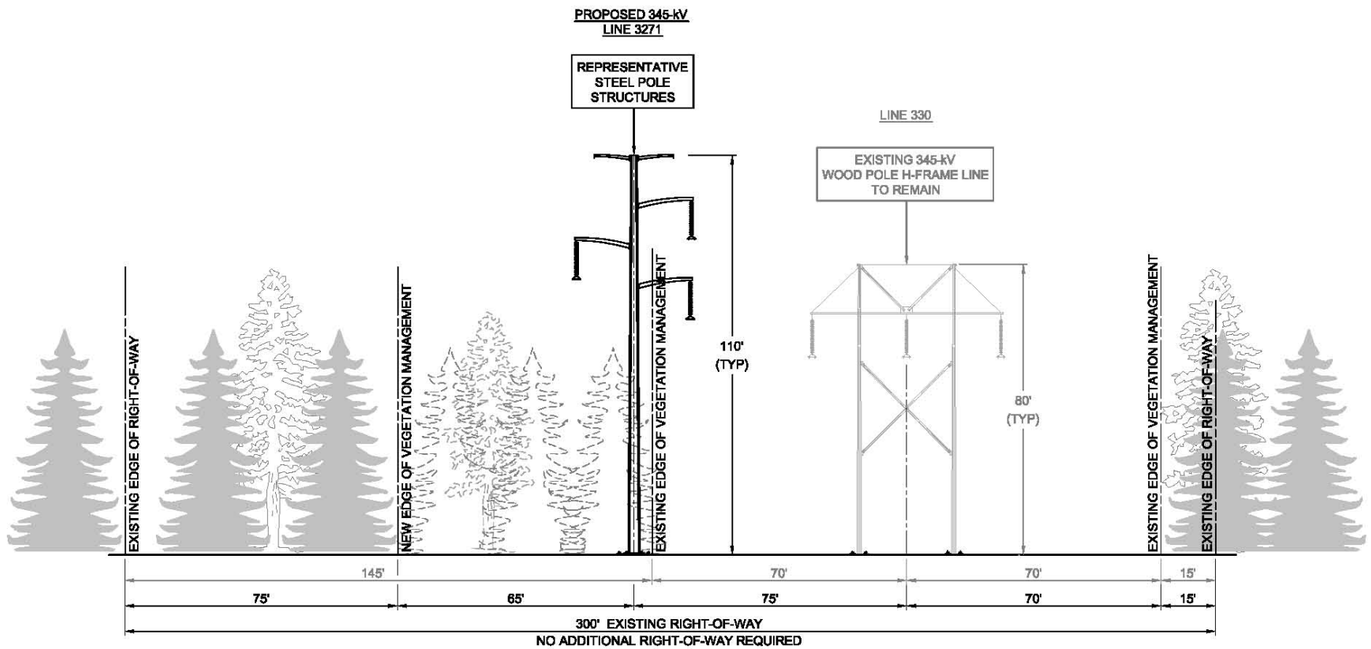
AECOM

Date: December 2011

MAPSHEET 6 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9039 to 9051
East of State Route 32/Stafford Road to East of Highland Road
Town of Mansfield, CT

Note: XS-2 BMP (depicted) applies to Proposed Route near Structures 9039 to 9048. Refer to XS-2 on Mapsheet 7 for depiction of Proposed Route from Structure 9049 to 9051



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Town Open Space (Highland Road and Stearns Road) managed by the Town of Mansfield)

Zoning
- Current:
  - Rural Agriculture Residence 40 Zone (RAR-40)
- Planned:
  - Planned Business 5 Zone (PB-5)

Natural Systems
- Open water (ponds)
- Conantville Brook and its associated tributaries
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Mixed hardwood forest of varying size and age

Visual Character
- Forest, residential, and agricultural

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9042 to 9044
- CT Protected/Town Open Space adjacent to and between structures 9042 and 9044
- Agricultural adjacent to and between structures 9050 and 9051
- Upland and/or wetland forest adjacent to structures 9039 to 9049

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-34, W20-35, W20-36, W20-37, W20-38, W20-39, W20-39A, W20-40, W20-41, W20-42, W20-43, W20-44
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-6, S20-7, S20-8, S20-9 (Conantville Brook)

Potential Access
- Structures 9039 to 9041 can be accessed from State Route 32/Stafford Road (see Mapsheet 5 of 40)
- Structures 9042 to 9051 can be accessed from Highland Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain
- Broad hill tops to steep slopes

Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

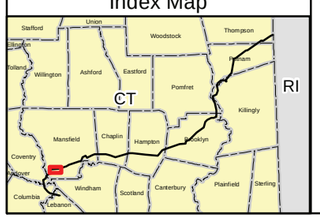
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 70 to 90 feet

Road Crossings/Major Utility Crossings
- Highland Road between structures 9042 and 9043

Town Open Space (Stearns Road)
Town Open Space (Highland Road)
Conantville Brook
STEARNS RD
WOODMOUNT DR
HIGHLAND RD
Town Open Space (Stearns Road)
Town Open Space (Highland Road)
NU Property
PB-5
RAR-40
STONE RIDGE LN
MANSFIELD
HIGHLAND RD
OAK DR
Conantville Brook
Connecticut Natural Diversity Data Base Area
Connecticut Natural Diversity Data Base Area
Match Line Maps 5 and 6 of 40
Match Line Maps 6 and 7 of 40
W20-38
W20-39
W20-39A
W20-37
W20-36
W20-35
W20-34
W20-40
W20-41
W20-42
W20-43
W20-44
S20-7
S20-6
S20-5
S20-8
S20-9
9040
9041
9042
9043
9044
9045
9046
9047
9048
9049
9050
9051
9039
PFO
PSS
OFS
UF
HY
AG
OW
OT

Index Map



Right-of-Way (Existing)
Proposed 345-kV Line (Centerline)
Existing Transmission Line (Centerline)
Existing Structure **(9001)**
Existing Structure (Guy Relocation)
Proposed Structure (1)
Proposed Structure (Guyed)

Connecticut Natural Diversity Data Base Area
Municipal/Private Park or Open Space
Property Line
Town/State Boundary
Potential Access Road
Northeast Utilities Property
Historic District

State Forest or Park
Wildlife Area or Sanctuary
100-Year Flood Zone
Wetland Boundary (W20-1)
Watercourse (S20-68)
R80 Zoning Designation

Land Use/Vegetative Cover Type

Emergent Wetland (PEM)
Forested Wetland (PFO)
Scrub - Shrub Wetland (PSS)
Open Field-Shrub Land (OFS)
Commercial/Industrial (CI)
Agricultural (AG)
Other (OT)
Open Water (OW)
House/Yard (HY)
Upland Forest (UF)
State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 6 of 40

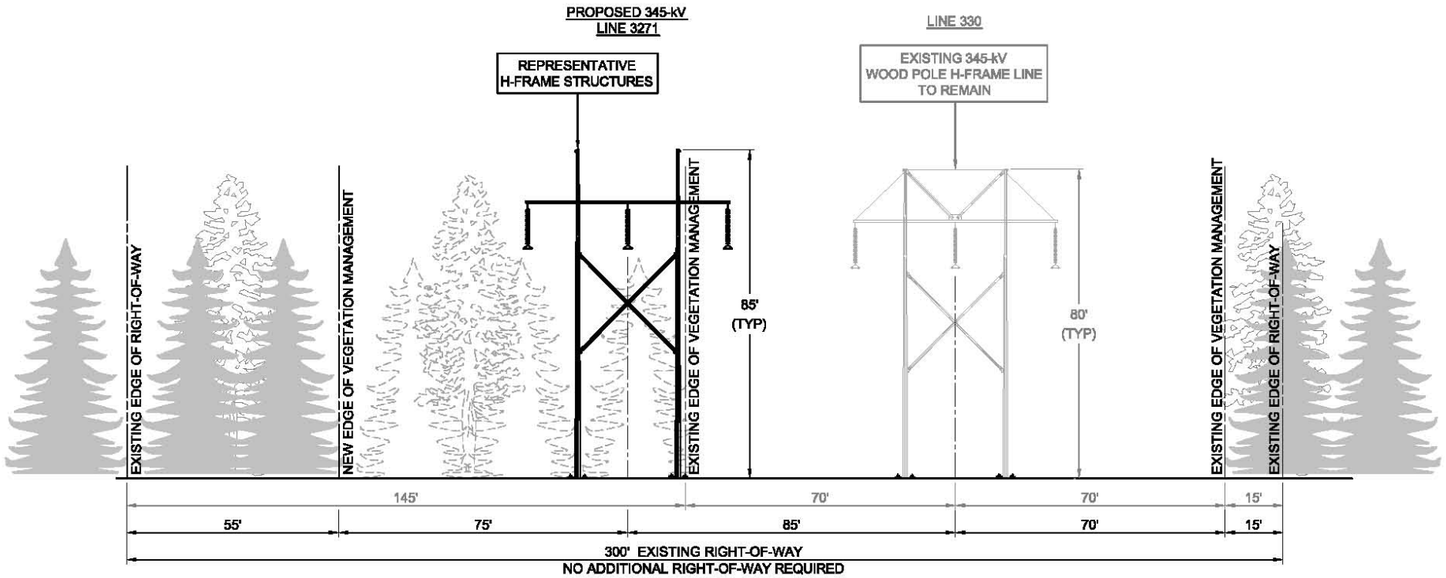
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 7 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9052 to 9064
East of Highland Road, including Mansfield City Road, to Nipmuck Trail (West Branch)
Town of Mansfield, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Town Open Space (Sawmill Brook Lane, Jacobs Hill Road) managed by the Town of Mansfield); Joshua's Tract Conservation and Historic Land Trust, Inc. (Jacobs Hill Preserve and Wolf Rock Nature Preserve)
- Connecticut Forest and Parks Association (CFPA) Nipmuck Trail (West Branch)

Zoning
- Current:
  - Rural Agriculture Residence 40 Zone (RAR-40)
  - Flood Hazard Zone (FH)

Natural Systems
- Sawmill Brook and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Sawmill Brook

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Agricultural adjacent to structures 9052 to 9054
- Upland and/or wetland forest adjacent to structures 9055 to 9064
- CT Protected/Open Space: Nipmuck Trail (West Branch) and Town Open Space between structures 9064 and 9065

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-45, W20-45A, W20-46, W20-47, W20-48, W20-49, W20-50, W20-51, W20-52, W20-53, W20-54, W20-55, W20-56
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream Nos.: S20-10, S20-11, S20-12, S20-12A, S20-13, S20-14, S20-15, S20-16, S20-17 (Sawmill Brook)

Potential Access
- Structures 9052 to 9053 can be accessed from Highland Road (see Mapsheet 6 of 40)
- Structure 9054 can be accessed from Mansfield City Road
- Structures 9055 to 9064 can be accessed from either Crane Hill Road or Storrs Road (see Mapsheet 8 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural

Terrain
- Hilly

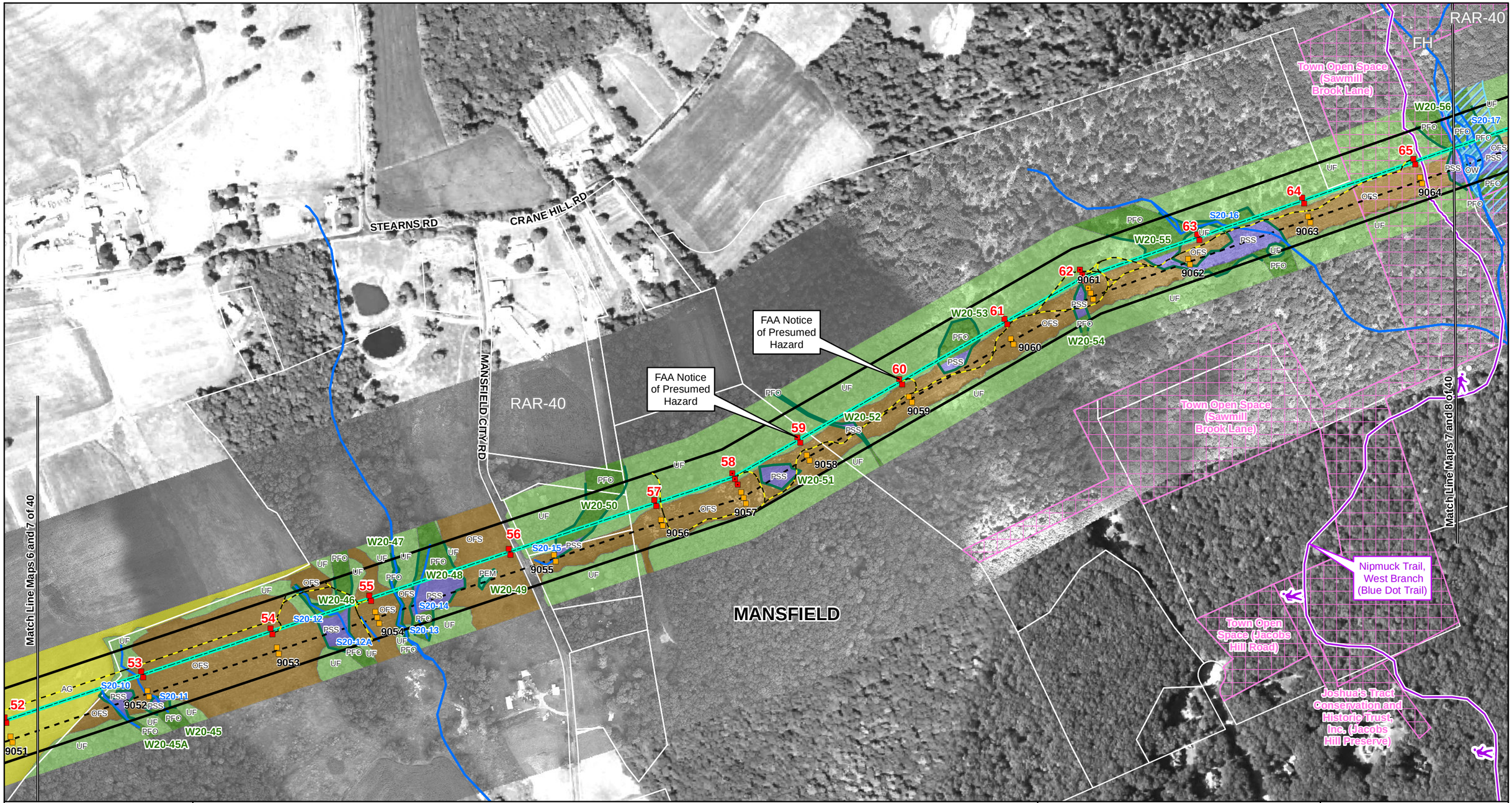
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

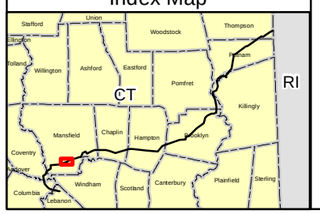
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Mansfield City Road between structures 9054 and 9055



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 7 of 40

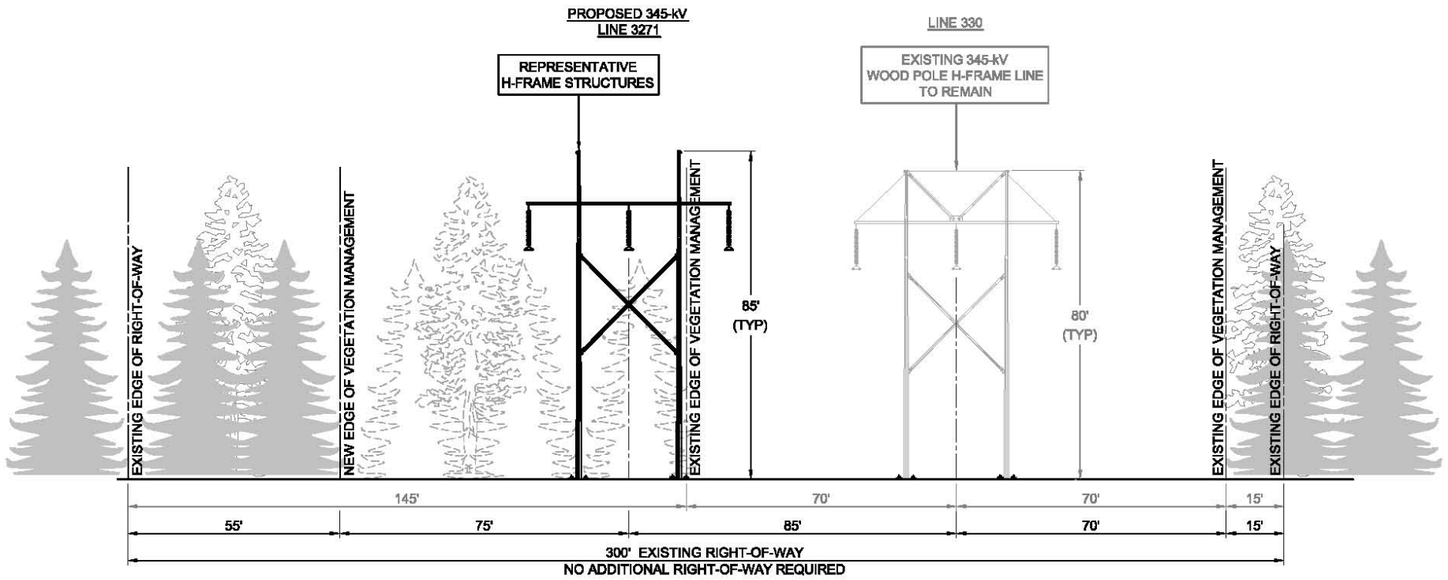
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 8 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9065 to 9076
Nipmuck Trail (West Branch) to Bassetts Bridge Road
Town of Mansfield, CT



AREA DESCRIPTION

Existing Land Use

- Residential
- Agricultural
- Commercial/Industrial
- CT Protected/Open Space (Joshua's Tract Conservation & Historic Land Trust, Inc. (Wolf Rock Nature Preserve) privately managed, and Town Open Space (Sawmill Brook Lane and Storrs & Bassetts Bridge Roads) managed by the Town of Mansfield)
- Mount Hope Montessori School (potential Statutory Facility)

Zoning

- Current:
  - Rural Agriculture Residence 40 Zone (RAR-40)
  - Rural Agriculture Residence 90 Zone (RAR-90)
  - Flood Hazard Zone (FH)
  - Mansfield Hollow Historic District

Natural Systems

- Sawmill Brook and its associated tributaries
- Open water (ponds)
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Sawmill Brook
- Natural Diversity Data Base Areas

Visual Character

- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use

- Residential near structures 9071 to 9073
- Commercial/Industrial adjacent to structures 9074 to 9075
- Agricultural adjacent to and between structures 9072, 9073, 9075 to 9076
- Upland and/or wetland forest adjacent to structures 9064 to 9071, and 9074
- Nipmuck Trail (West Branch) near structure 9064

Wetlands, Watercourses and Waterbodies

- Wetland Nos.: W20-56, W20-57, W20-58, W20-59, W20-60, W20-61, W20-62, W20-62A, W20-62B, W20-62C
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-17 (Sawmill Brook), S20-17B, S20-18, S20-19A

Potential Access

- Structures 9064 to 9065 can be accessed from either Crane Hill Road or Storrs Road (see Mapsheet 7 of 40)
- Structures 9066 to 9073 can be accessed from Storrs Road
- Structures 9074 to 9076 can be accessed from Bassetts Bridge Road

Right-of-Way Vegetation

- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain

- Hilly to broad hill tops

Existing Right-of-Way Width

- 300 feet

Proposed Expansion of Right-of-Way Width

- 0 feet

Existing Managed Right-of-Way Width

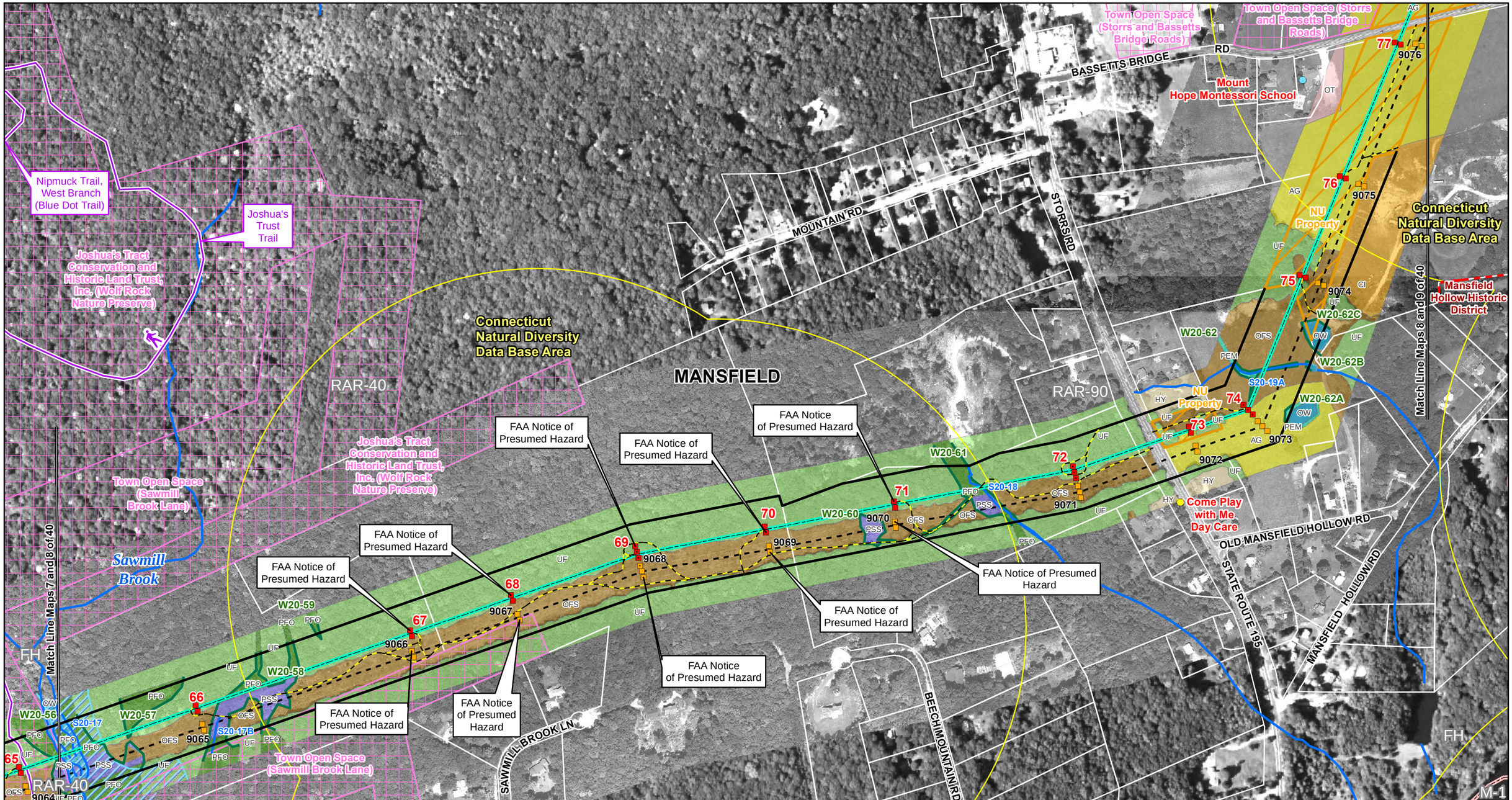
- 140 feet

Additional Managed Right-of-Way Width Required

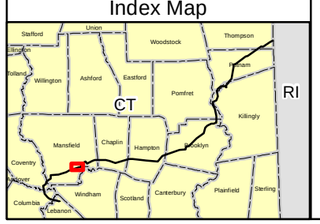
- 90 feet

Road Crossings/Major Utility Crossings

- Storrs Road (State Route 195) between structures 9071 and 9072
- Bassetts Bridge Road between structures 9076 and 9077



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 8 of 40

Connecticut Light & Power
A Northeast Utilities Company

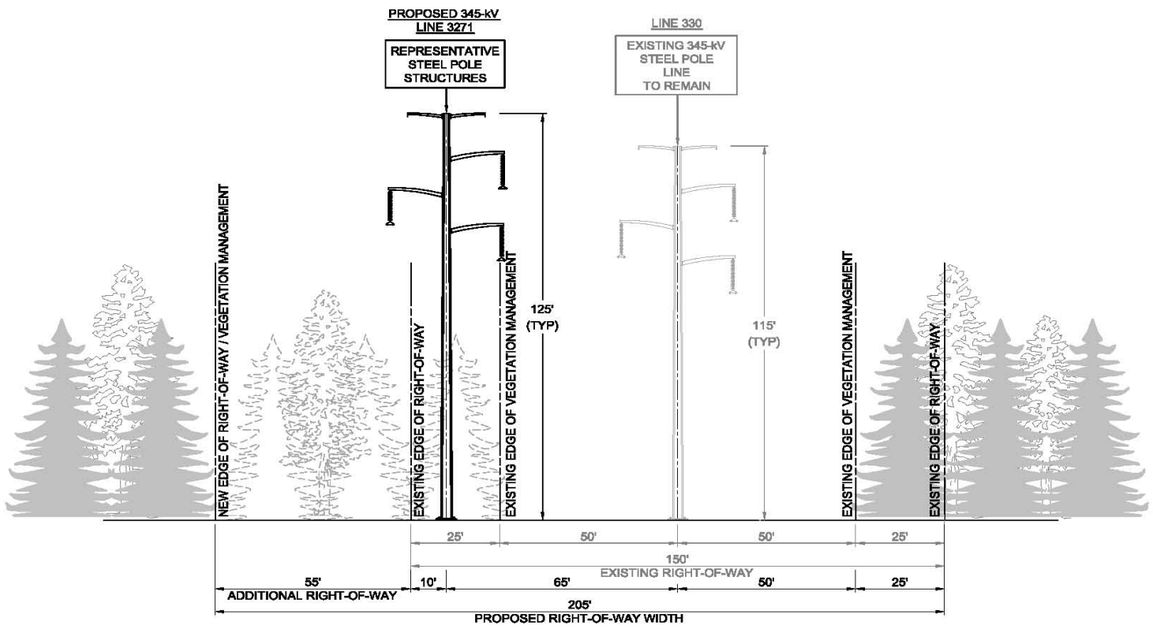
AECOM

Date: December 2011

MAPSHEET 9 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9077 to 9086
Bassetts Bridge Road to Nipmuck Trail (East Branch)
Town of Mansfield, CT

Note: This cross-section (XS-3) applies to the 1-mile segment between structures 9080 and 9086, including 0.9 mile of USACE-owned property. See cross-section (XS-2) on Mapsheet 8 for transmission line and ROW configuration between structures 9077 and 9080.



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- Commercial/Industrial
- CT Protected/Open Space (Joshua's Tract Conservation and Historic Land Trust (The Pond Lot and Wildlife Area) privately managed, Town Open Space (Storrs & Bassetts Bridge Roads) managed by the Town of Mansfield, Mansfield Hollow State Park and Mansfield Hollow Lake managed by the CT DEEP and the U.S. Army Corps of Engineers (USACE), and Mansfield Hollow Wildlife Management Area (WMA) managed by the CT DEEP)
- Mansfield Hollow Levee (recreational trail); Red Trail (hiking trail in State Park); CFPA's Nipmuck Trail

Zoning
- Current:
  - Rural Agriculture Residence 90 Zone (RAR-90)
  - Flood Hazard Zone (FH)

Natural Systems
- Open water (ponds)
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Areas
- Mansfield Hollow Lake
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Mansfield Hollow Lake

Visual Character
- Residential, agricultural, commercial/industrial, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Agricultural adjacent to and between structures 9076 to 9078
- Residential near structures 9080 and 9081
- CT Protected/Open Space – Mansfield Hollow State Park and WMA adjacent to and west of structure 9081 to east of structure 9086
- Upland and/or wetland forest adjacent to structures 9077 to 9080, and 9082 to 9086
- Flood Control Levee Trail between structures 9080 and 9081
- Mansfield Hollow Park Trail (Red Trail) between structures 9082 and 9085
- Nipmuck Trail, East Branch near structure 9086

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-63, W20-64, W20-65, W20-66
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Waterbody: Mansfield Hollow Lake
- Stream No.: S20-19

Potential Access
- Structures 9076 to 9086 can be accessed from Bassetts Bridge Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain
- Broad, rolling hills

Existing Right-of-Way Width
- 150 (USACE property) to 300 feet

Proposed Expansion of Right-of-Way Width
- 0 to 55 feet: 55 feet within USACE-owned property Mansfield Hollow State Park and WMA only

Existing Managed Right-of-Way Width
- 100 to 140 feet

Proposed Additional Managed Right-of-Way Width
- 80 to 90 feet: 80 feet is USACE-owned property Mansfield Hollow State Park and WMA only

Road Crossings/Major Utility Crossings
- Bassetts Bridge Road between structures 9076 and 9077, and 9081 and 9082

Flood Control Levee Trail

Nipmuck Trail, East Branch (Blue Dot Trail)

Joshua's Tract Conservation and Historic Land Trust, Inc. (Wildlife Area)

Mansfield Hollow Wildlife Management Area

Mansfield Hollow Lake

Connecticut Natural Diversity Data Base Area

MANSFIELD

RAR-90

Match Line Maps 8 and 9 of 40

Match Line Maps 9 and 10 of 40

Mansfield Hollow Dam Historic District

Mansfield Hollow State Park

Mansfield Hollow Park Trail

Mansfield Hollow Park Trail / Red Trail

Proposed Configuration Expanded Right-of-Way

Town Open Space (Storrs and Bassetts Bridge Roads)

NU Property

NU Property

Green Dragon Day Care

BASSETTS BRIDGE RD

MANSFIELD HOLLOW RD EXT

HAWTHORNE LN

Mansfield Hollow Wildlife Management Area

Connecticut Natural Diversity Data Base Area

Mansfield Hollow Lake

FH

Nipmuck Trail, East Branch (Blue Dot Trail)

Mansfield Hollow Wildlife Management Area

W20-64 W20-63 S20-19 W20-66 W20-65

77 78 79 80 81 82 83 84 85 86 87 88

9076 9077 9078 9079 9080 9081 9082 9083 9084 9085 9086

UF PFO PSS OFS HY CI AG OW

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 9 of 40

Connecticut Light & Power
A Northeast Utilities Company

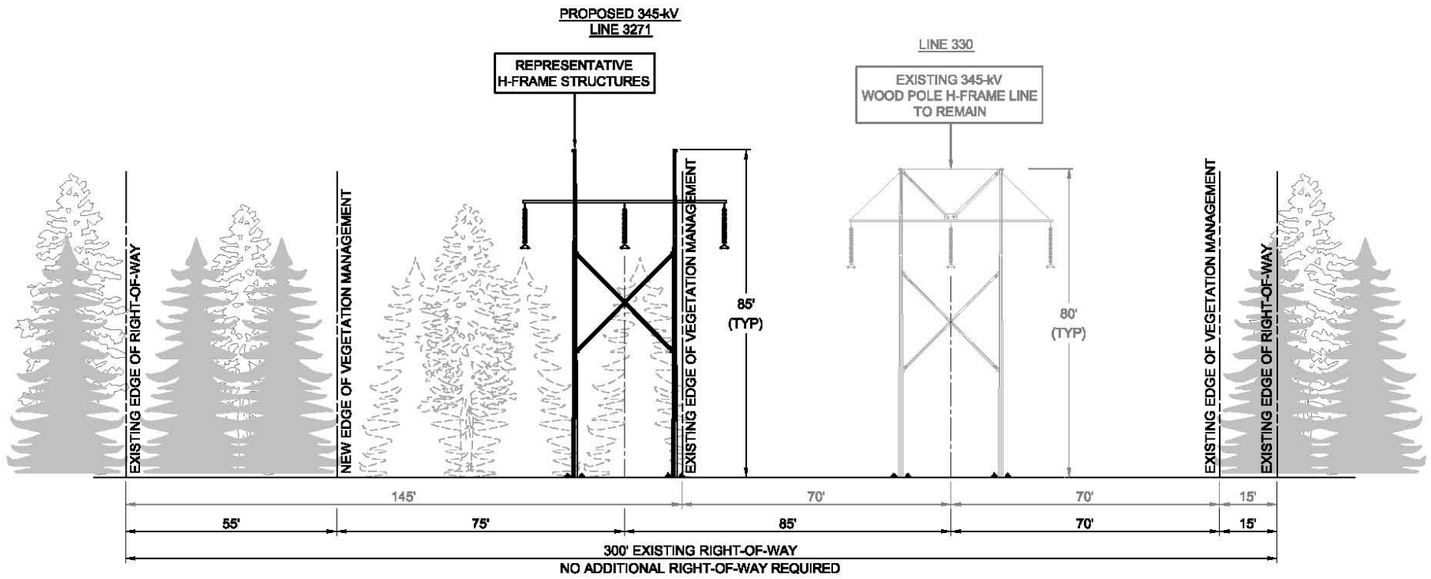
AECOM

Date: December 2011

MAPSHEET 10 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9087 to 9096
Nipmuck Trail (East Branch) to East of Natchaug River
Towns of Mansfield and Chaplin, CT

Note: XS-4 (depicted) illustrates Proposed Route between Structures 9087 and 9094. Refer to XS-5 on Mapsheet 11 for Proposed ROW Configuration in Mansfield Hollow WMA in Town of Chaplin between structures 9095 and 9096.



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- CT Protected/Open Space (Mansfield Hollow Wildlife Management Area managed by the CT DEEP); CFPA's Nipmuck Trail (East Branch)

Zoning
- Town of Mansfield
  - Current:
    - Rural Agriculture Residence 90 Zone (RAR-90)
  - Flood Hazard Zone (FH)
- Town of Chaplin
  - Current:
    - Rural Agriculture Residence District (RAR)

Natural Systems
- Natchaug River and its associated tributaries
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Mansure Pond
- Natural Diversity Data Base Area
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Natchaug River

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9087 to 9090
- Agricultural adjacent to structure 9092
- CT Protected/Open Space–Mansfield Hollow WMA adjacent to and/or between structures 9087, and 9094 to 9096
- Upland and/or wetland forest adjacent to structures 9087 to 9097
- Nipmuck Trail, East Branch between structures 9086 and 9087

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-67, W20-68, W20-69, W20-70, W20-71, W20-72, W20-73, W20-74
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-20, S20-21, S20-21A, S20-22 (Natchaug River), S20-23

Potential Access
- Structure 9087 can be accessed from Bassetts Bridge Road
- Structures 9088 to 9095 can be accessed from South Bedlam Road
- Structures 9096 to 9097can be accessed from U.S. Route 6/Willimantic Road (see Mapsheet 11 of 40)

Right-of-Way Vegetation
- Upland and wetland forest, open field-shrub, agricultural, house/yard

Terrain
- Broad, rolling hills

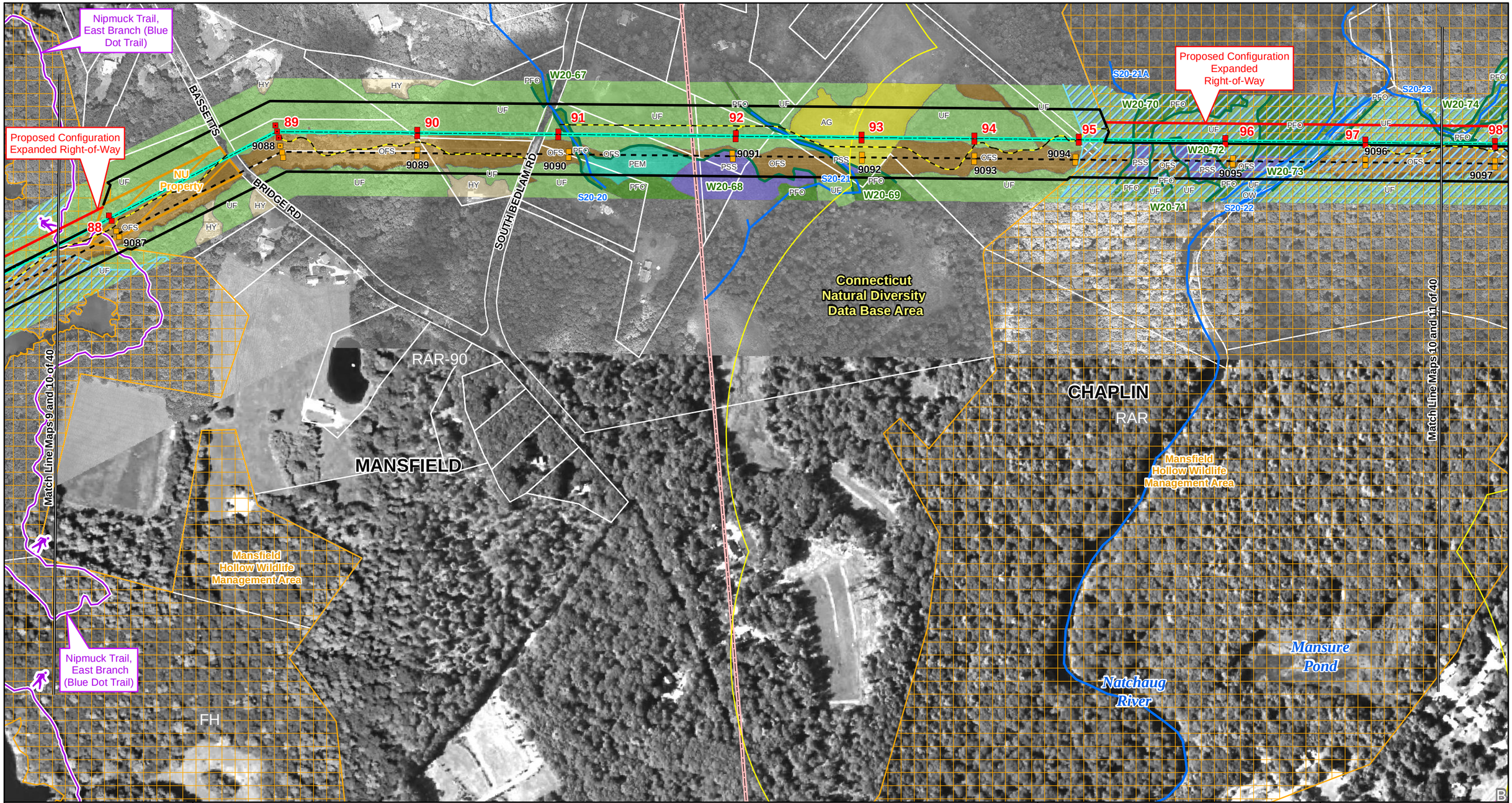
Existing Right-of-Way Width
- 150 to 300 feet

Proposed Expansion of Right-of-Way Width
- 0 to 85 feet: 85 feet across USACE-owned property within Mansfield Hollow WMA only

Existing Managed Right-of-Way Width
- 100 to 140 feet

Proposed Additional Managed Right-of-Way Width
- 90 feet

Road Crossings/Major Utility Crossings
- Bassetts Bridge Road between structures 9087 and 9088
- South Bedlam Road between structures 9089 and 9090



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 10 of 40

Connecticut Light & Power
A Northeast Utilities Company

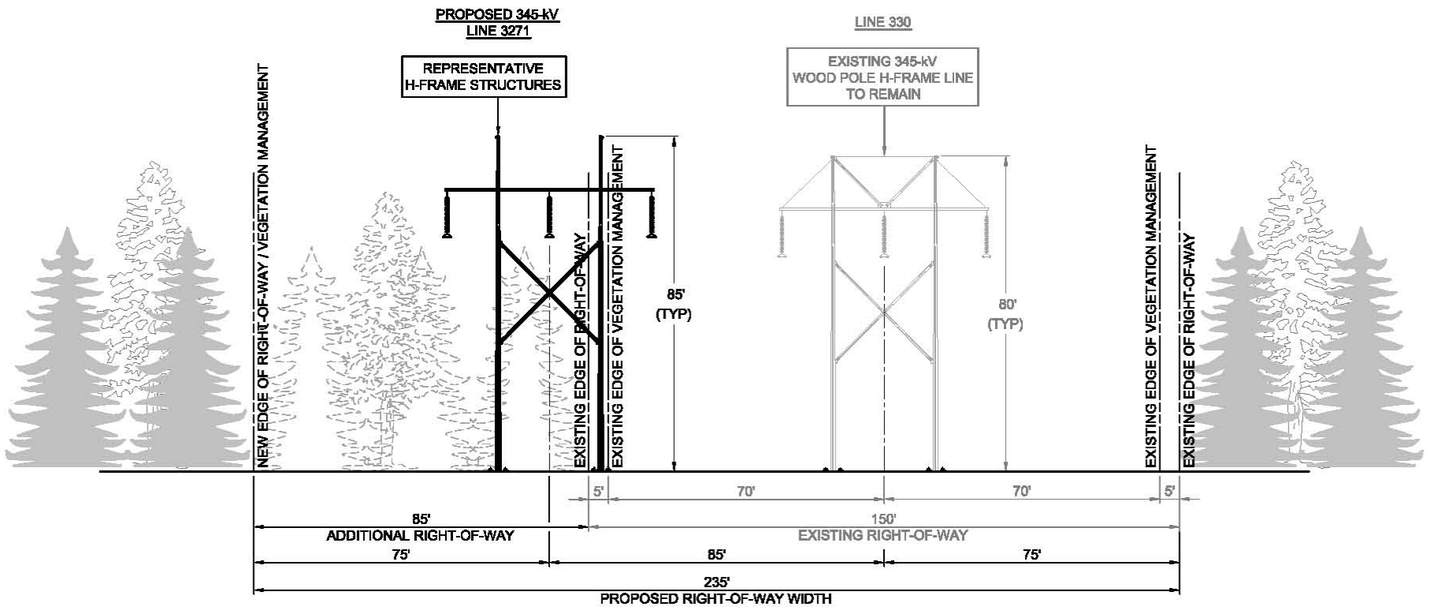
AECOM

Date: December 2011

MAPSHEET 11 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9097 to 9107
East of Natchaug River (including WMA and U.S. Route 6/Willimantic Road) to Park Drive
Town of Chaplin, CT

Note: XS-5 (depicted) shows the Proposed ROW Configuration across the Mansfield Hollow WMA (Structures 9095 to 9099). Refer to XS-6 on Mapsheet 12 for the Proposed Route between structures 9100 and 9107.



AREA DESCRIPTION

Existing Land Use
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Fin, Fur and Feather Club, Inc. privately managed, and Mansfield Hollow Wildlife Management Area and Natchaug State Forest and Trail managed by the CT DEEP)

Zoning
- Current:
  - Business District (B)
  - Rural Agriculture Residence District (RAR)

Natural Systems
- Natural Diversity Data Base Area
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Tucker Pond
- Mixed hardwood forest varying in size and age
- 100-year flood zone - Natchaug River tributary

Visual Character
- Residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- CT Protected/Open Space adjacent to and between structures 9097 and 9099 (Mansfield Hollow WMA) and 9103 to 9107 (Fin, Fur, and Feather Club, Inc.)
- Upland and/or wetland forest adjacent to structures 9097 to 9107

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-74, W20-75, W20-76, W20-77, W20-78, W20-79, W20-80, W20-81, W20-82, W20-83, W20-84
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-23, S20-24, S20-25, S20-26, S20-27

Potential Access
- Structures 9097 to 9100 can be accessed from U.S. Route 6; Structures 9101 to 9107 can be accessed from either U.S. Route 6/Willimantic Road or Chewink Road (see Mapsheet 12 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Broad, rolling hills

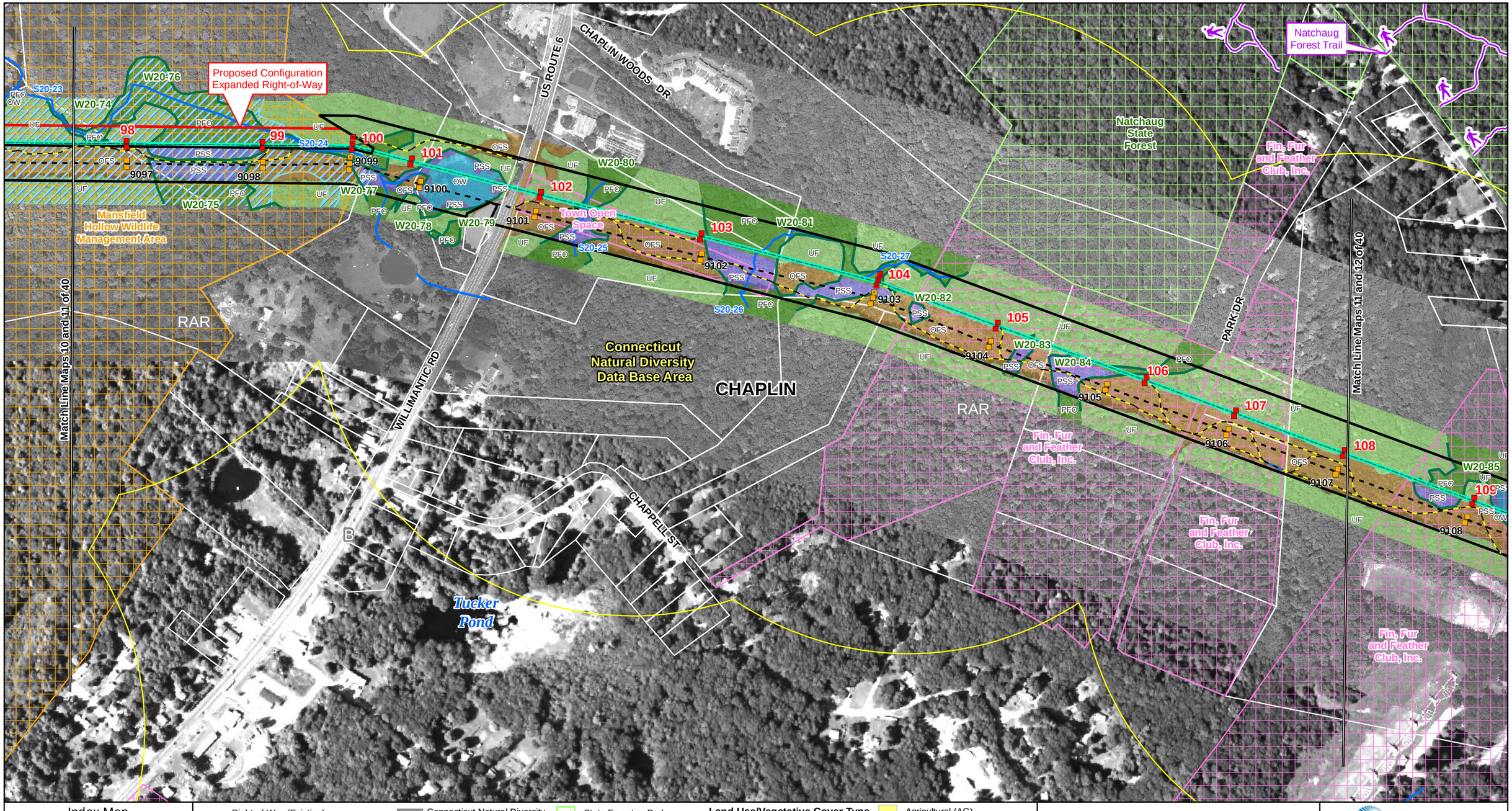
Existing Right-of-Way Width
- 150 to 300 feet

Proposed Expansion of Right-of-Way Width
- 0 to 85 feet: 85 feet is USACE owned property Mansfield Hollow State Park and WMA only

Existing Managed Right-of-Way Width
- 140 feet

Proposed Additional Managed Right-of-Way Width
- 90 feet

Road Crossings/Major Utility Crossings
- U.S. Route 6/Willimantic Road between structures 9100 and 9101



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure (1)
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary (W20-1)
- Watercourse (S20-68)
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 11 of 40

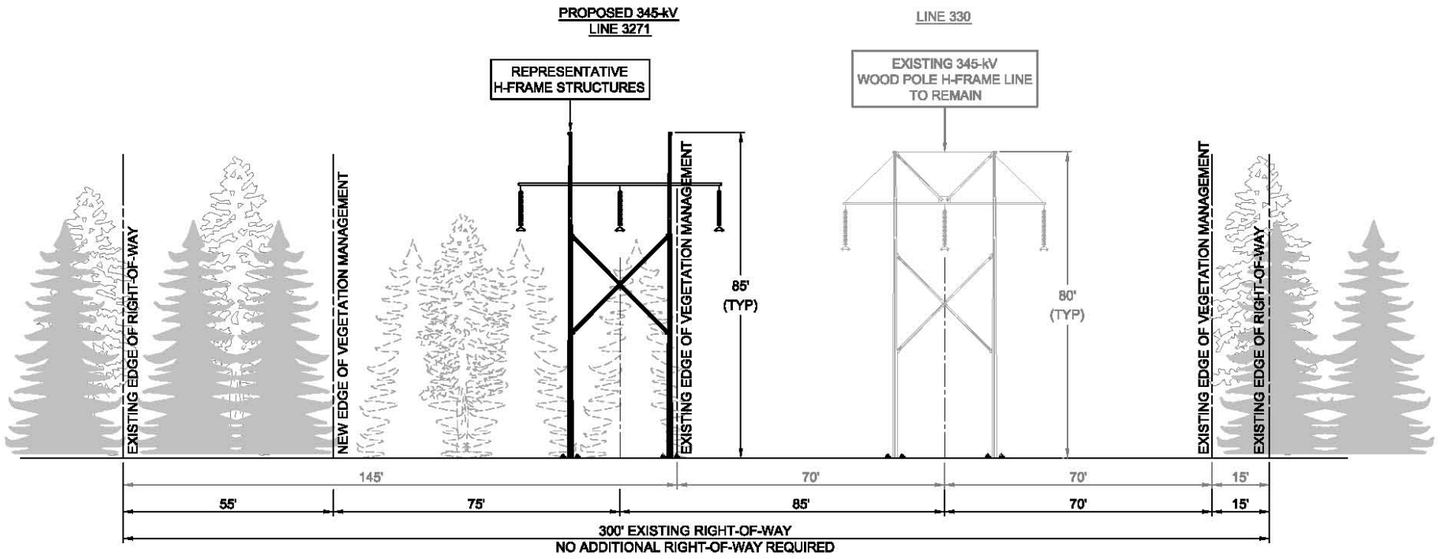
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 12 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9108 to 9115
Park Drive to East of Chewink Road
Town of Chaplin, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- CT Protected/Open Space (Fin, Fur and Feather Club, Inc. privately managed
- CT Protected/Open Space - Old Cemetery (East of Fiske Road) privately managed, Chewink Cemetery privately managed, and Airline State Park Trail (Northern Section) and Natchaug State Forest managed by the CT DEEP)

Zoning
- Current:
  - Rural Agriculture Residence District (RAR)

Natural Systems
- State/Federal jurisdictional wetlands
- Cavanaughs Pond
- Natural Diversity Data Base Area
- Open water (ponds)
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structure 9111
- CT Protected/Open Space adjacent to and/or between structures 9107 to 9111(Fin, Fur, and Feather Club, Inc.); 9113-9114 (Natchaug State Forest)
- Upland and/or wetland forest adjacent to structures 9108 to 9109, and 9111 to 9115

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-85, W20-86, W20-87, W20-88
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream No.: S20-28

Potential Access
- Structure 9108 can be accessed from U.S. Route 6 (see Mapsheet 11 of 40) or Chewink Road
- Structures 9109 to 9111 can be accessed from Chewink Road
- Structures 9112 to 9115 can be accessed from Fiske Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard, agriculture

Terrain
- Broad hill tops to hilly

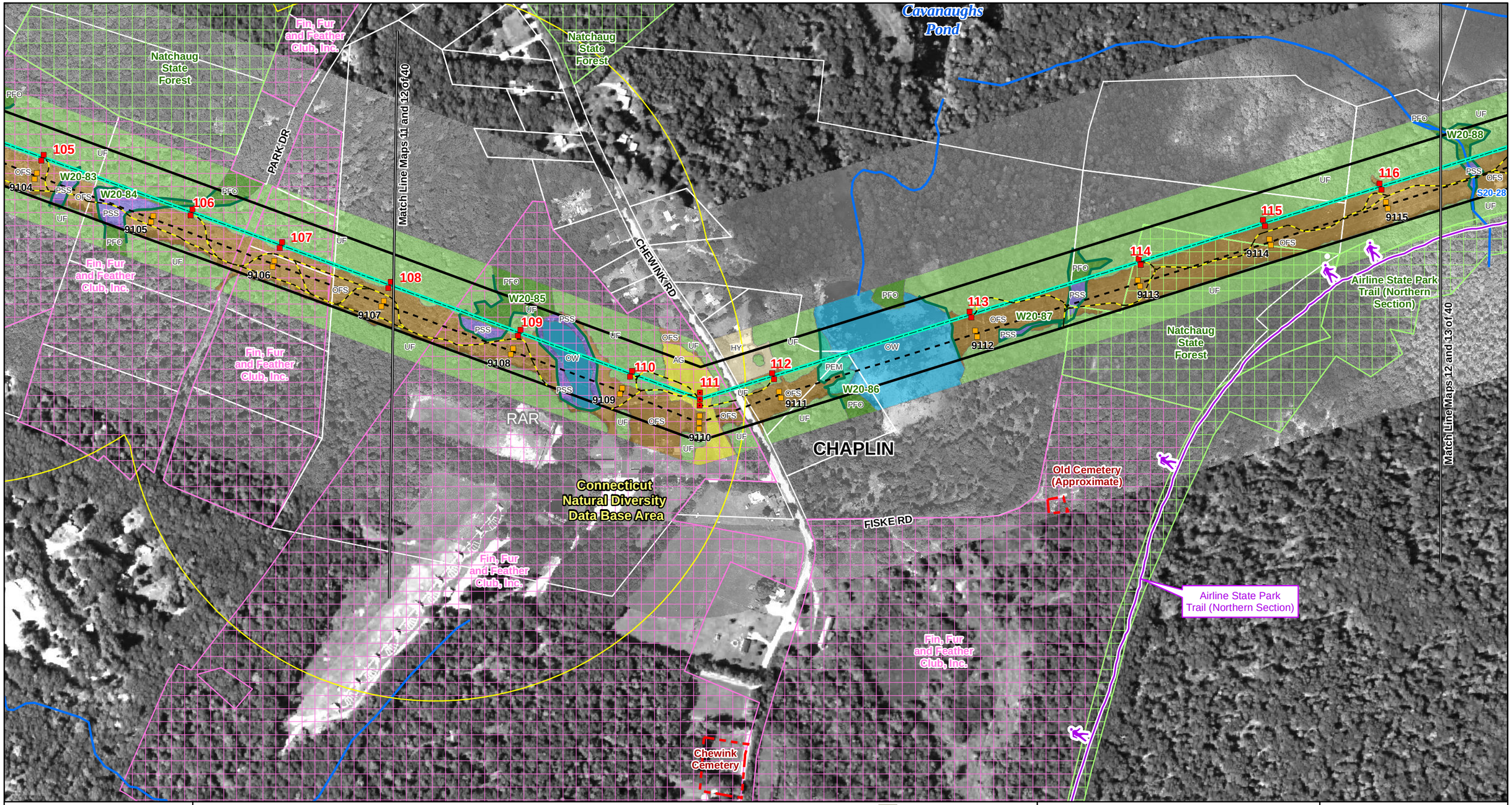
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Chewink Road between structures 9110 to 9111



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 12 of 40

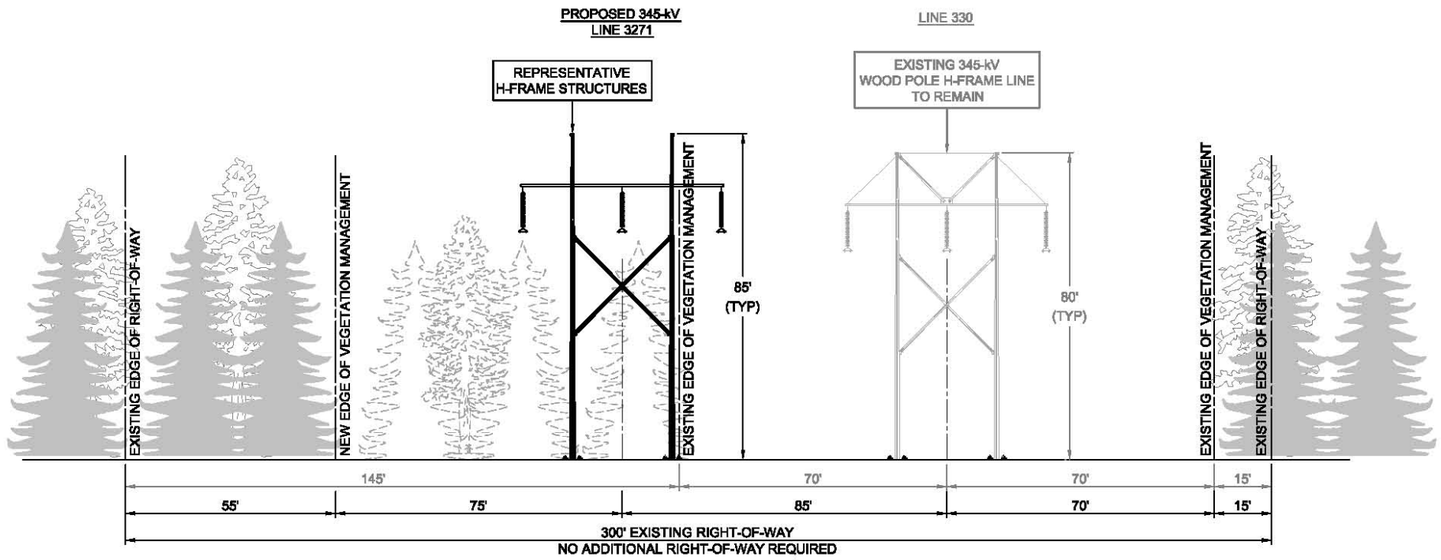
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 13 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9116 to 9125
East of Chewink Road to East of South Brook Street
Towns of Chaplin and Hampton, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Airline State Park Trail (Northern Section) managed by the CT DEEP)

Zoning
- Town of Chaplin
  - Current:
    - Rural Agriculture Residence District (RAR)
    - Business District (B)
- Town of Hampton
  - Current
    - Business District (B)
    - Residential Agriculture (RA-80)

Natural Systems
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Open water (ponds)
- Buttonball Brook and its associated tributaries
- Merrick Brook and its associated tributaries
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structure 9123
- CT Protected/Open Space - Airline State Park Trail between structures 9124 and 9125
- Upland and/or wetland forest adjacent to structures 9116 to 9125

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-88, W20-89, W20-90, W20-91, W20-92, W20-93, W20-94
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-28, S20-29 (Buttonball Brook), S20-30, S20-31, S20-32 (Merrick Brook)

Potential Access
- Structures 9116 to 9119 can be accessed from Fiske Road (see Mapsheet 12 of 40)
- Structures 9120 to 9124 can be accessed from South Brook Street
- Structure 9125 can be accessed from either Parker Road or State Route 97/Pudding Hill Road (see Mapsheet 15 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Broad, gentle slopes

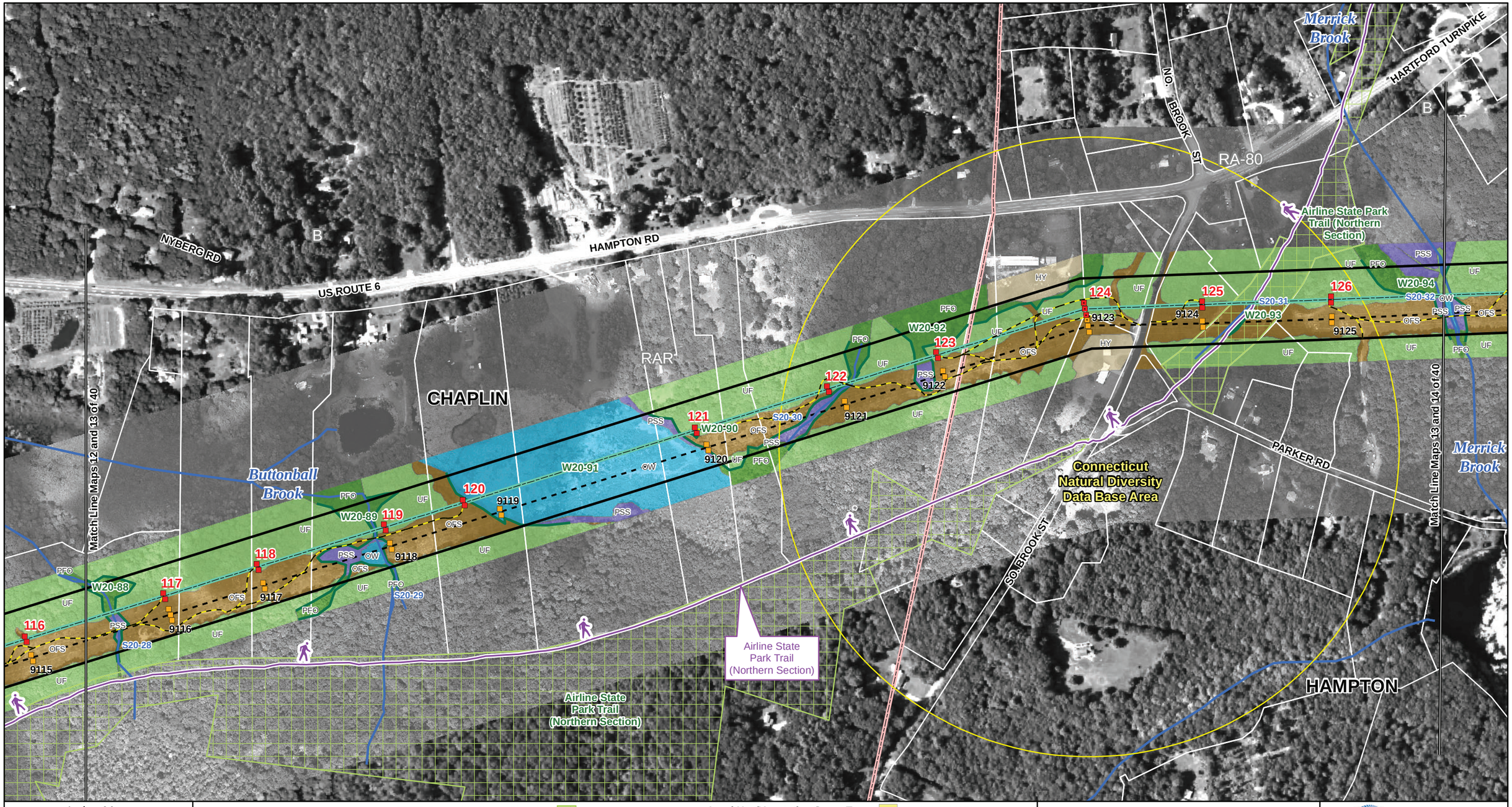
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- South Brook Street between structures 9123 and 9124



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 13 of 40

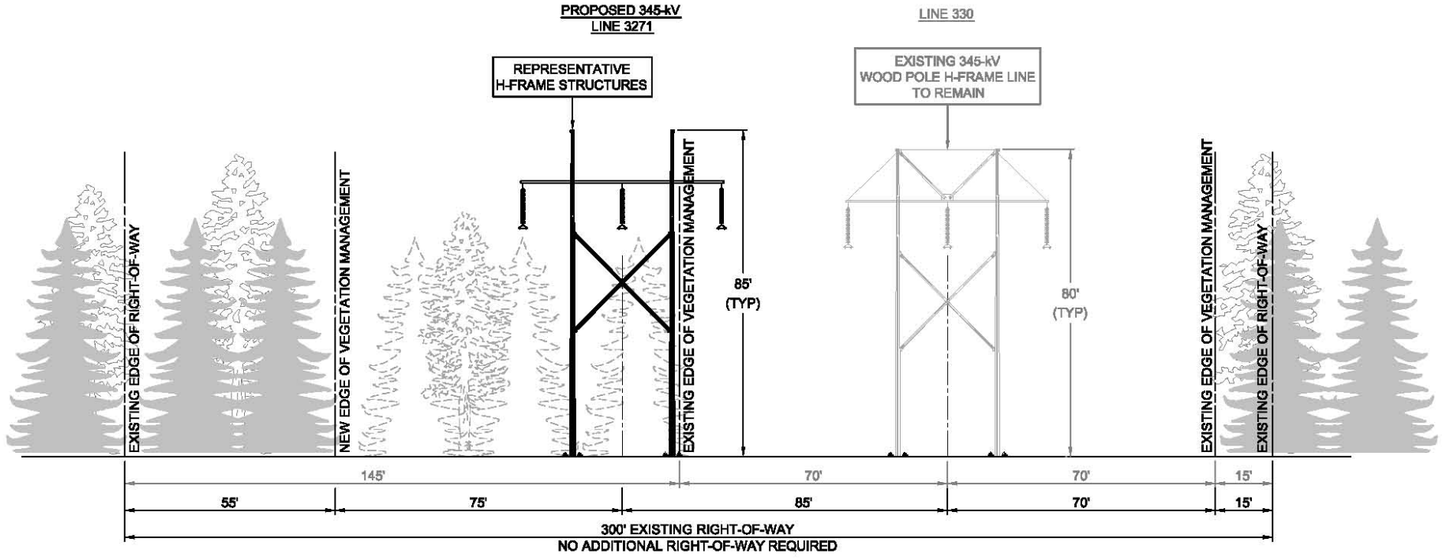
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 14 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9126 to 9135
East of South Brook Street to West of State Route 97/Pudding Hill Road
Town of Hampton, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- CT Protected/Open Space (Bigelow Howard Valley Fish and Game Club privately managed)

Zoning
- Current:
  - Residential Agriculture (RA-80)
  - Business District (B)

Natural Systems
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Natural Diversity Data Base Area
- Merrick Brook and its associated tributaries
- Mixed hardwood forest varying in size and age
- 100-year flood zone

Visual Character
- Residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to structures 9126 to 9135

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-94, W20-95, W20-95A, W20-96, W20-97, W20-98, W20-99, W20-100, W20-101
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Emergent Wetland (PEM), Open Water (OW)
- Stream Nos.: S20-32 (Merrick Brook), S20-33, S20-34, S20-35

Potential Access
- Structures 9126 to 9135 can be accessed from either Parker Road or State Route 97/Pudding Hill Road (see Mapsheet 15 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Broad, gentle slopes

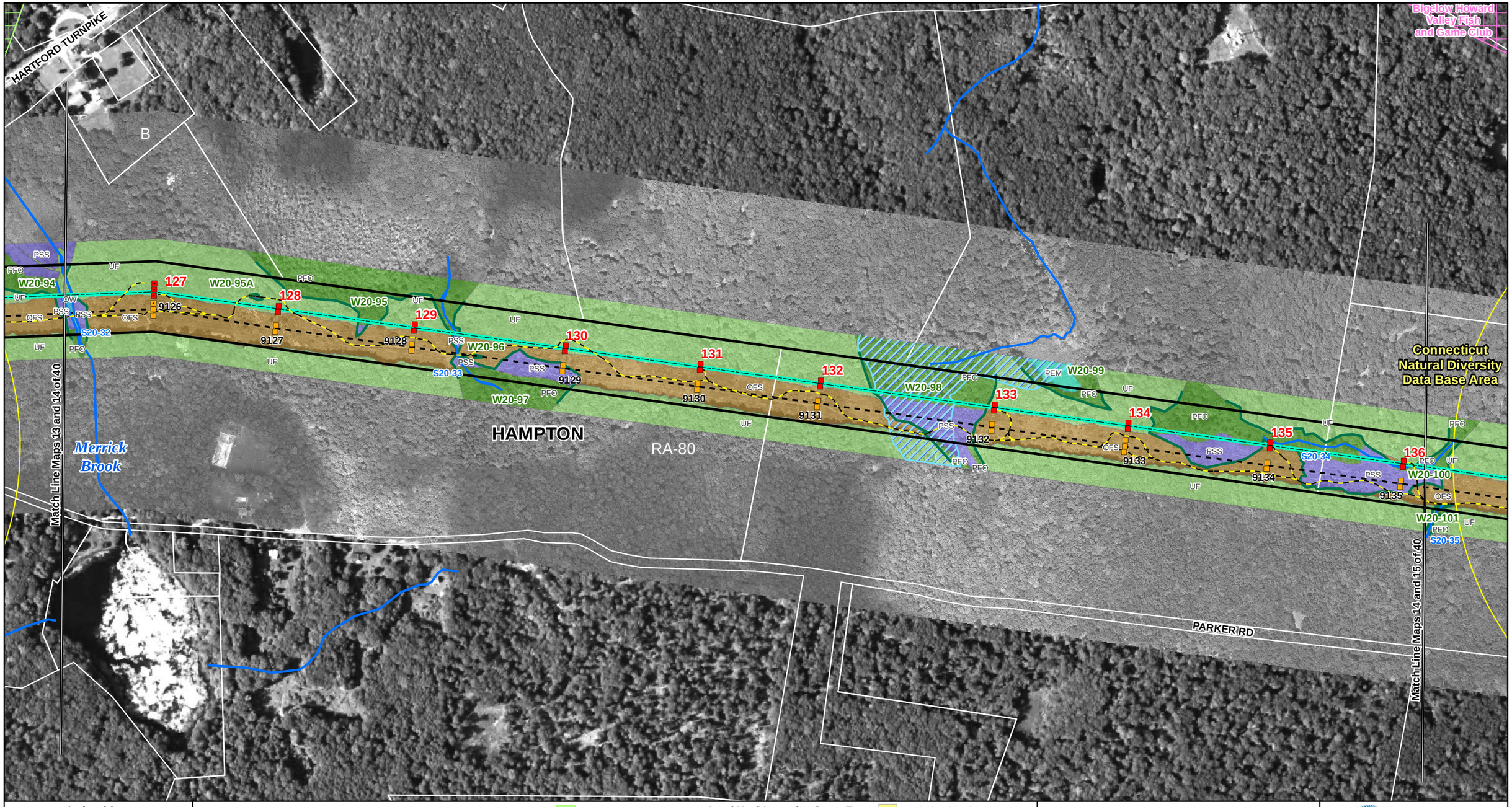
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- None



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 14 of 40

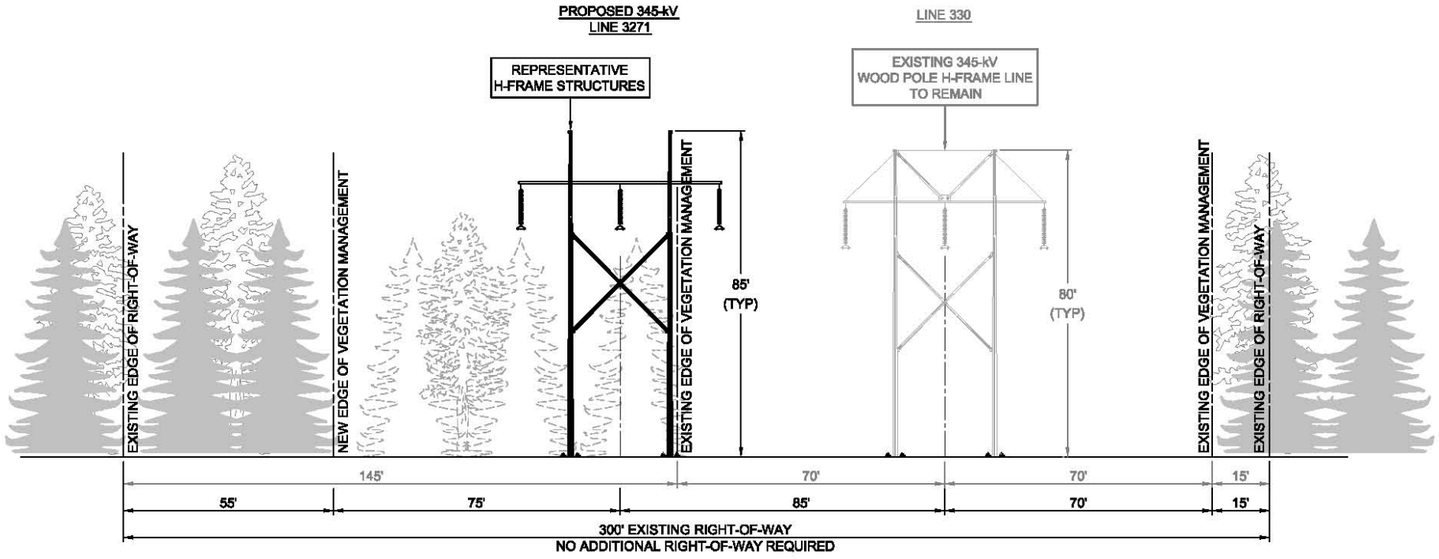
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 15 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9136 to 9145
West of State Route 97/Pudding Hill Road to East of South Bigelow Road
Town of Hampton, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (South Cemetery privately managed, Little River Wildlife Area managed by the CT DEEP, and Bigelow Howard Valley Fish and Game Club privately managed)

Zoning
- Current:
  - Residential Agriculture (RA-80)

Natural Systems
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Open water (ponds)
- Cedar Swamp Brook and its associated tributaries
- Little River and its associated tributaries
- Mixed hardwood forest varying in size and age
- Floodplains associated with Cedar Swamp Brook and Little River
- 100-year flood zone – Cedar Swamp Brook, Little River

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9139
- Agricultural adjacent to and between structures 9143 to 9145
- CT Protected/Open Space - Bigelow Howard Fish and Game Club adjacent to and between structures 9140 to 9145
- Upland and/or wetland forest adjacent to structures 9135 to 9145

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-100, W20-101, W20-102, W20-103, W20-104, W20-105, W20-106, W20-107, W20-108, W20-109
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Emergent Wetland (PEM)
- Stream Nos.: S20-34, S20-35, S20-36, S20-37, S20-38, S20-38A, S20-39A and S20-39 (Cedar Swamp Brook)

Potential Access
- Structures 9136 to 9139 can be accessed from either Parker Road or State Route 97/Pudding Hill Road
- Structure 9140 can be accessed from State Route 97/Pudding Hill Road
- Structure 9141 can be accessed from Cemetery Road
- Structure 9142 can be accessed from either Cemetery Road or South Bigelow Road
- Structures 9143 to 9145 can be accessed from South Bigelow Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain
- Hilly with broad, gentle slopes

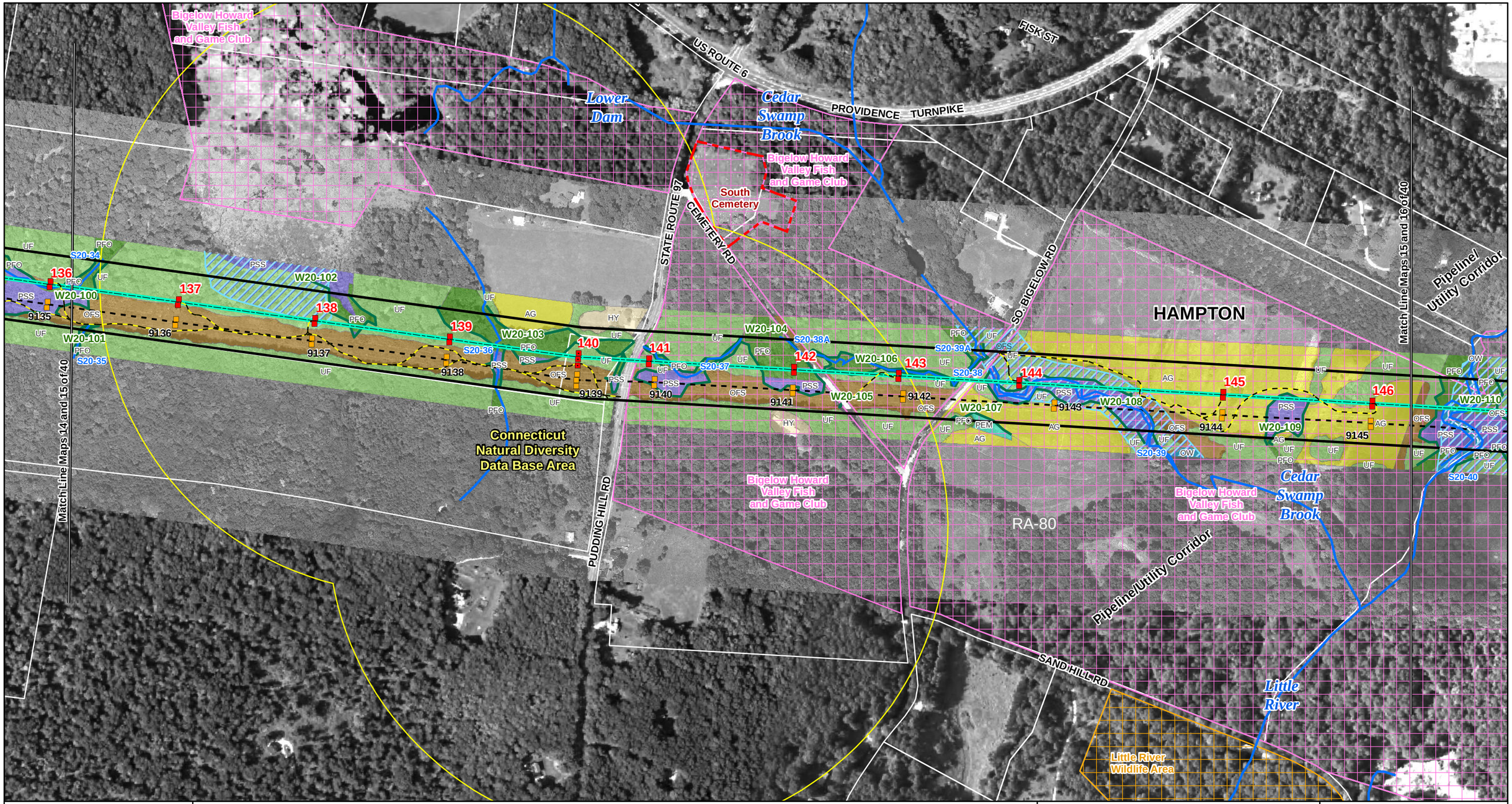
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

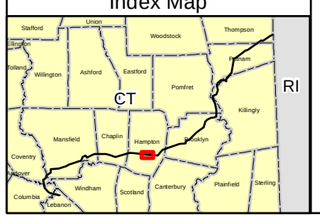
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- State Route 97/Pudding Hill Road between structures 9139 and 9140
- Cemetery Road between structures 9141 and 9142
- South Bigelow Road between structures 9142 and 9143
- Pipeline/Utility corridor between structures 9144 and 9145



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 15 of 40

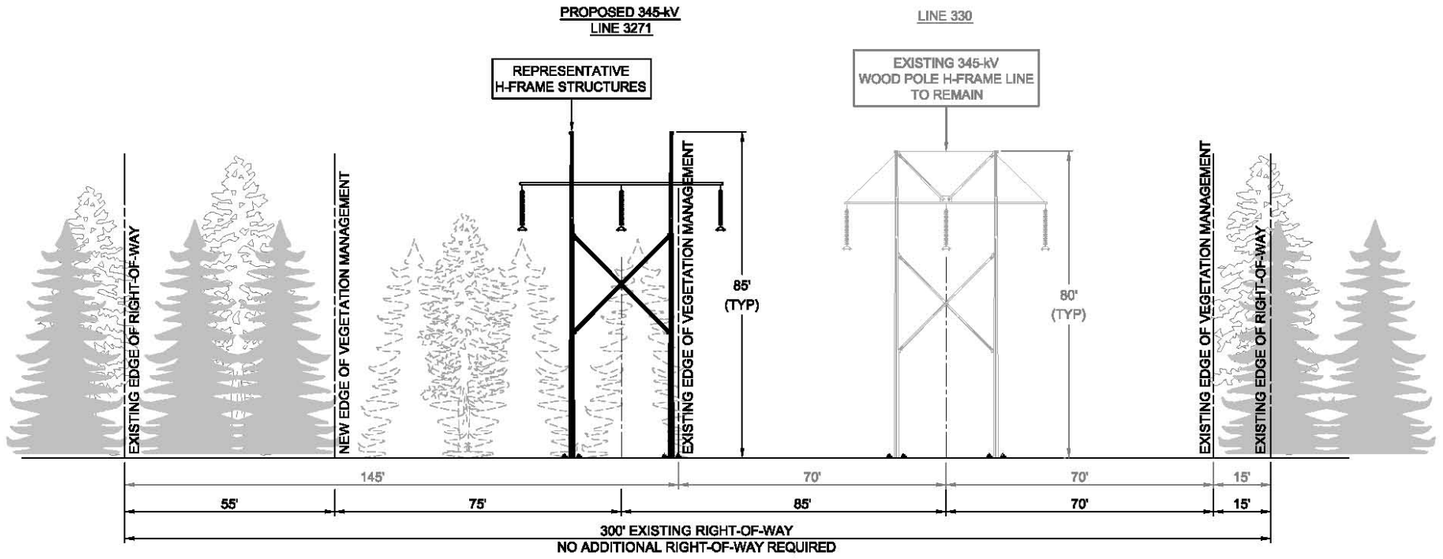
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 16 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9146 to 9154
East of South Bigelow Road to Drain Street
Town of Hampton, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Little River Wildlife Area managed by the CT DEEP, and Bigelow Howard Valley Fish and Game Club privately managed)

Zoning
- Current:
  - Residential Agriculture (RA-80)

Natural Systems
- Little River and its associated tributaries
- Humes Brook and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Little River

Visual Character
- Residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9151 to 9152
- CT Protected/Open Space – Bigelow Howard Valley Fish and Game Club adjacent to and between structures 9146 and 9149
- Upland and/or wetland forest adjacent to structures 9146 to 9154

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-110, W20-111, W20-112, W20-112A, W20-113, W20-114, W20-115, W20-116, W20-117, W20-118
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-40 (Little River), S20-40A, S20-41, S20-41A (Humes Brook), S20-41B

Potential Access
- Structures 9146 to 9154 can be accessed from Drain Street

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain
- Broad, gentle slopes

Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Drain Street between structures 9152 and 9153

Match Line Maps 15 and 16 of 40

Match Line Maps 16 and 17 of 40

Little River

Pipeline/ Utility Corridor

Bigelow Howard Valley Fish and Game Club

Humes Brook

DRAIN ST

RA-80

HAMPTON

146 147 148 149 150 151 152 153 154 155

9145 9146 9147 9148 9149 9150 9151 9152 9153 9154

W20-110 W20-111 W20-112 W20-112A W20-113 W20-114 W20-115 W20-116 W20-117 W20-118

S20-40 S20-40A S20-41 S20-41A S20-41B

OW PFO PSS OFS UF AG HY

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)

- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District

- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 16 of 40

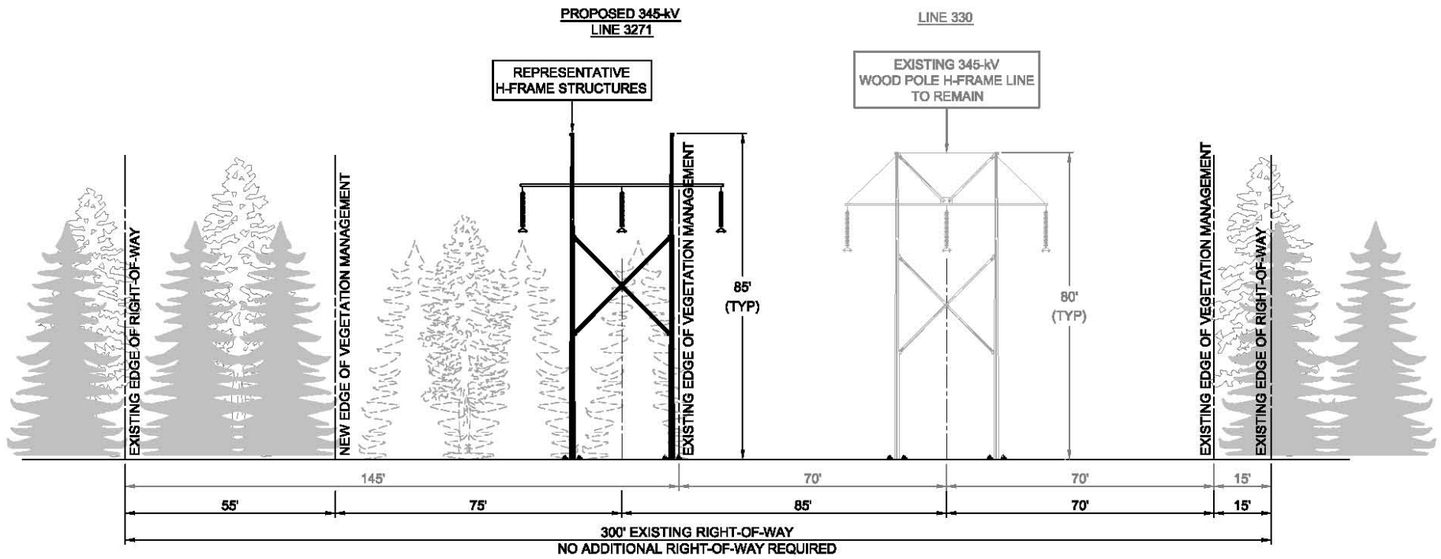
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 17 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9155 to 9162
Drain Street to West of Stetson Road
Towns of Hampton and Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural

Zoning
- Town of Hampton
  - Current:
    - Residential Agriculture (RA-80)
- Town of Brooklyn
  - Current:
    - Residential Agriculture (RA)

Natural Systems
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age
- 100-year flood zone

Visual Character
- Residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to structures 9155 to 9162

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-118, W20-119, W20-120, W20-121, W20-122
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream Nos.: S20-41C, S20-41D

Potential Access
- Structures 9155 to 9159 can be accessed from Drain Street (see Mapsheet 16 of 40)
- Structures 9160 to 9162 can be accessed from Stetson Road (see Mapsheet 18 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Broad, gentle slopes

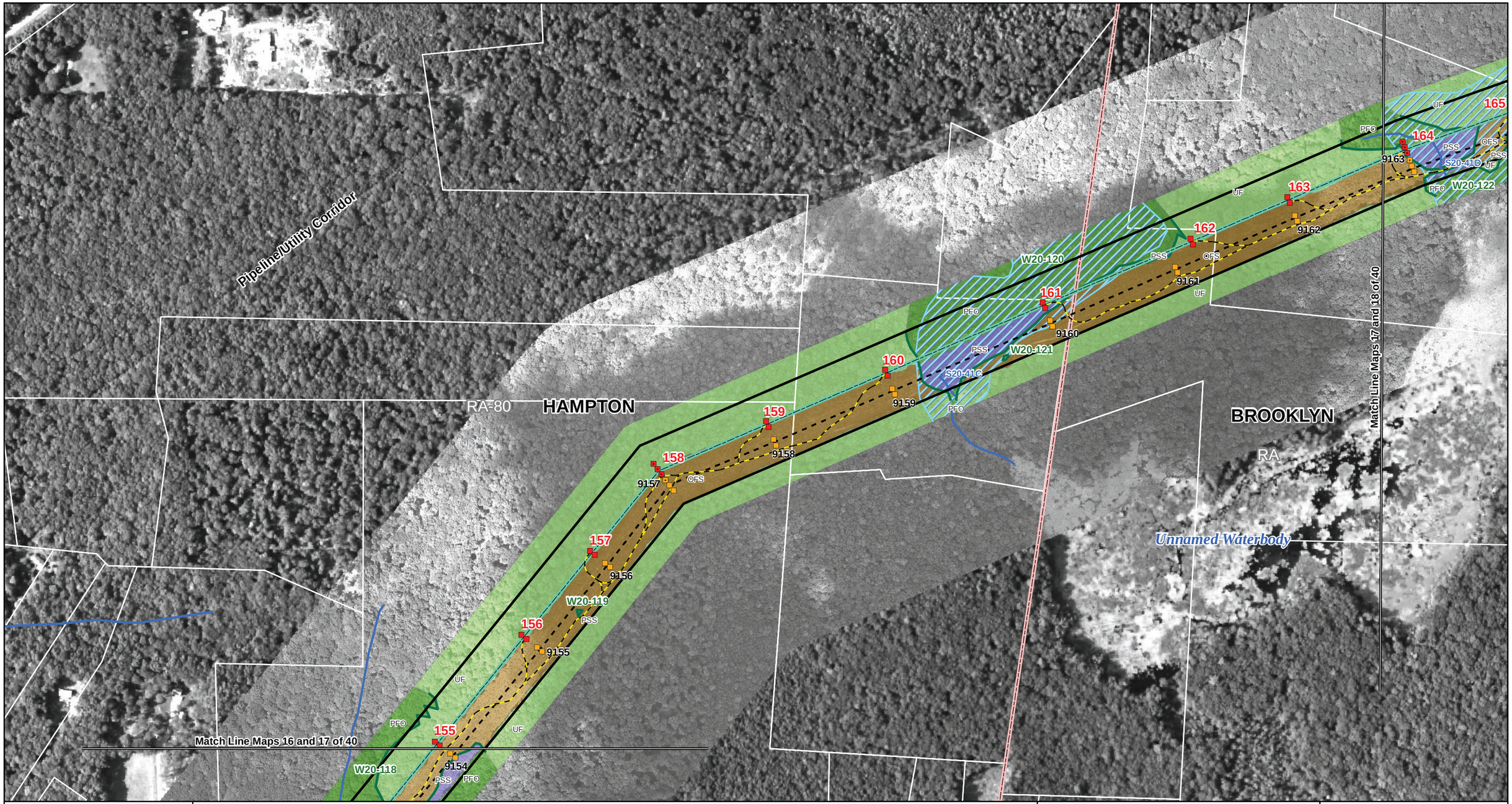
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

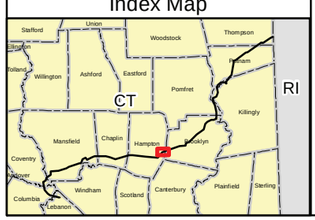
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- None



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 17 of 40

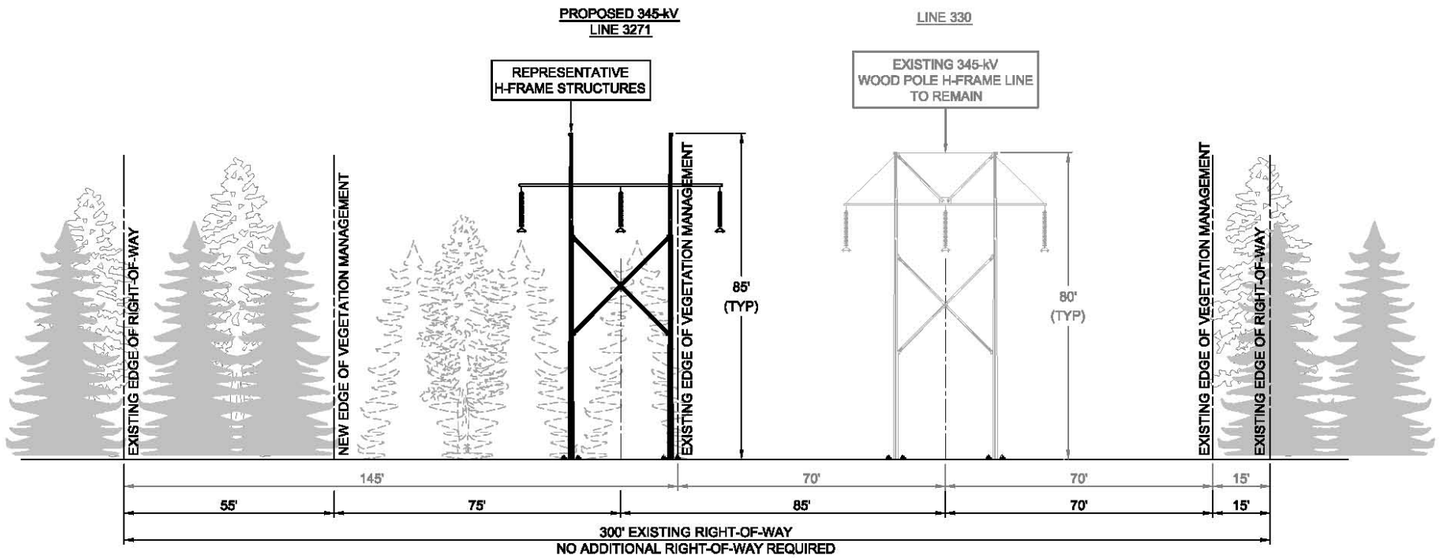
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 18 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9163 to 9171
West of Stetson Road to East of Stetson Road
Town of Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural

Zoning
- Current:
  - Residential Agriculture (RA)

Natural Systems
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Streton Pond
- Mixed hardwood forest varying in size and age
- 100-year flood zone

Visual Character
- Residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to structures 9163 to 9171
- Residential near structures 9165 to 9166

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-122, W20-123, W20-124, W20-125, W20-126, W20-127, W20-128
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-41D, S20-41E

Potential Access
- Structures 9163 to 9170 can be accessed from Stetson Road
- Structures 9171 to 9172 can be accessed from Windham Road (see Mapsheet 19 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Broad, gentle slopes to hilly

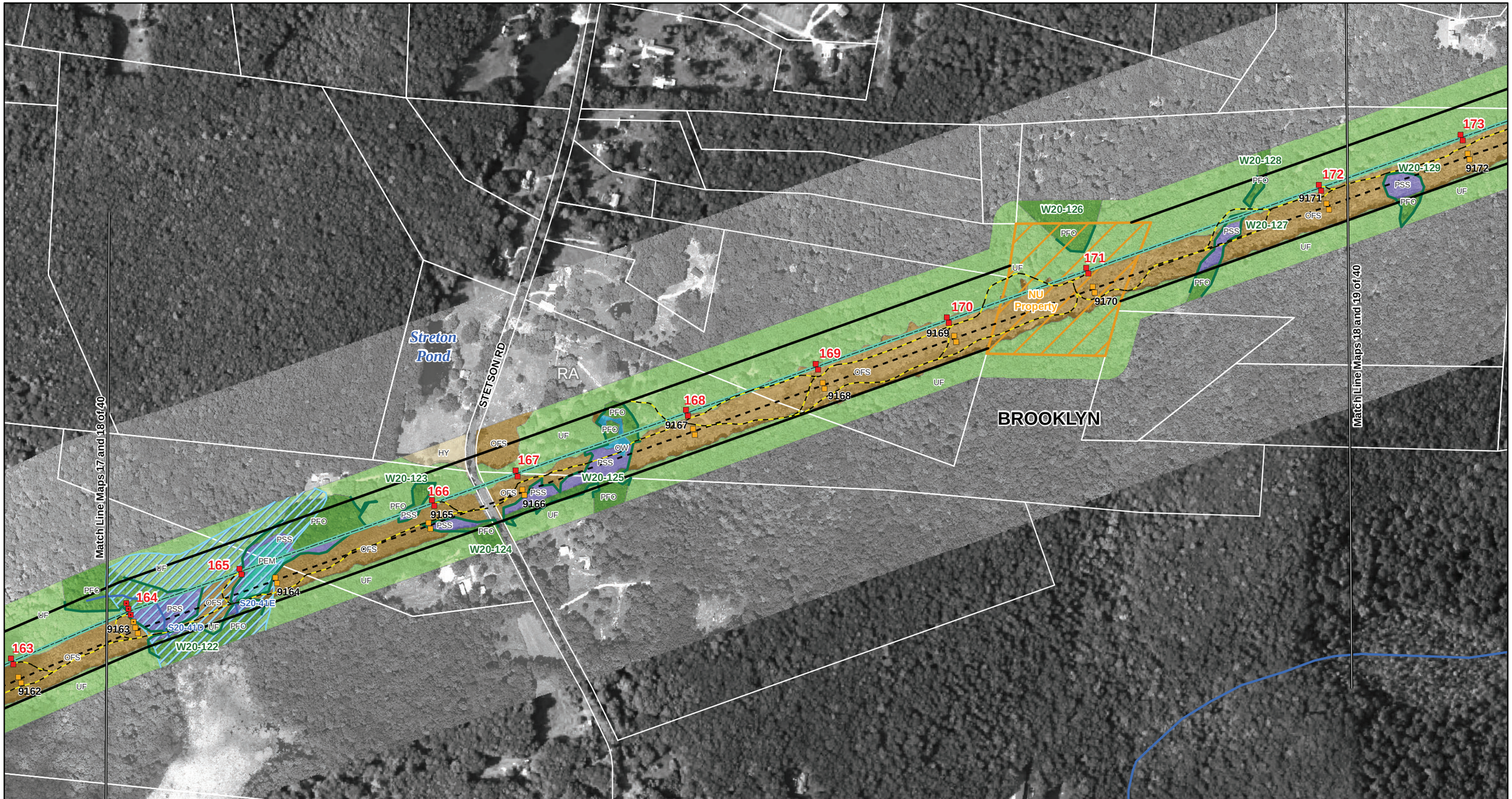
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

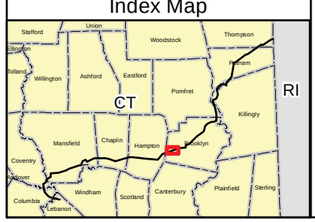
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Stetson Road between structures 9165 and 9166



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 18 of 40

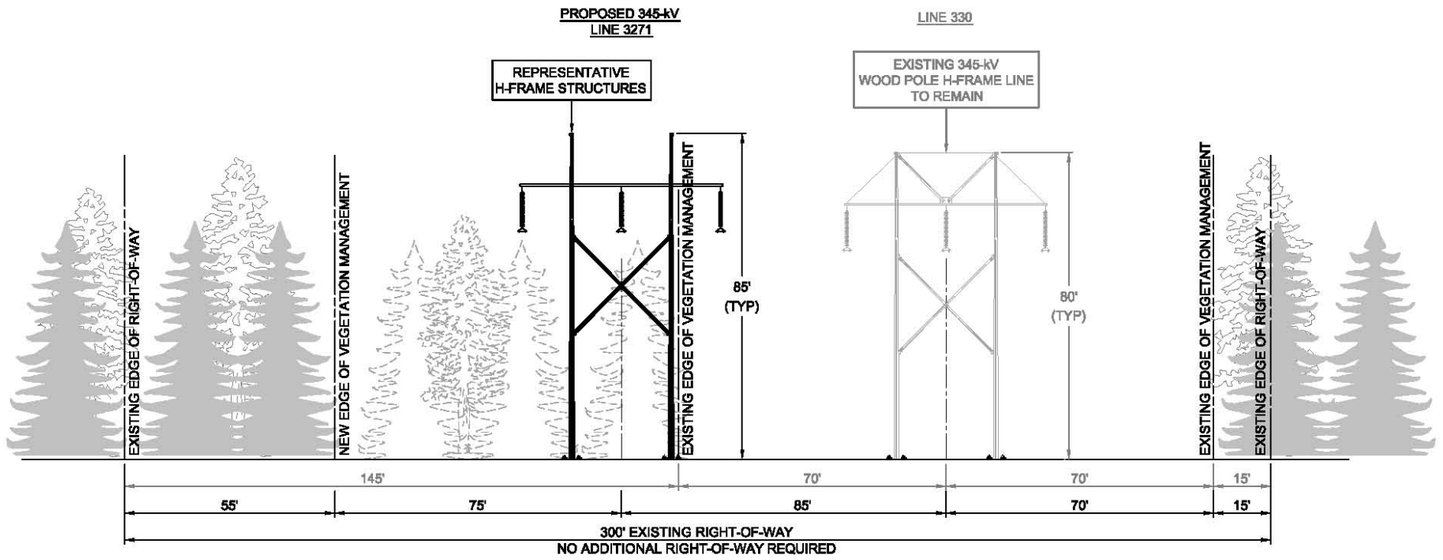
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 19 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9172 to 9183
East of Stetson Road (including U.S. Route 6/Hartford Road) to Northeast of Appell Road
Town of Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural

Zoning
- Current:
  - Residential Agriculture (RA)

Natural Systems
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Stony Brook and its associated tributaries
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Stony Brook

Visual Character
- Residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9174, 9175, 9177, 9178, 9180, and 9183
- Upland and/or wetland forest adjacent to structures 9172 to 9176, 9177, and 9178 to 9183

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-129, W20-130, W20-131, W20-132, W20-133, W20-134, W20-135, W20-136, W20-137, W20-138, W20-139
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream No.: S20-41G, S20-41F, S20-42 (Stony Brook), S20-42A

Potential Access
- Structures 9172 to 9177 can be accessed from Windham Road
- Structures 9178 to 9180 can be accessed from either Windham Road or U.S. Route 6/Hartford Road
- Structures 9181 to 9183 can be accessed from Laurel Hill Road (see Mapsheet 20 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Broad, gentle slopes to hilly

Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Windham Road between structures 9177 and 9178
- U.S. Route 6/Hartford Road between structures 9180 and 9181
- Appell Road between structures 9181 and 9182

Connecticut Natural Diversity Data Base Area

Stony Brook

APPELL RD (Paper Road)

HARTFORD RD

US ROUTE 6

BROOKLYN

WINDHAM RD

TATNIC RD

Match Line Maps 18 and 19 of 40

Match Line Maps 19 and 20 of 40

NU Property

NU Property

W20-127 W20-128 W20-129 W20-130 W20-131 W20-132 W20-133 W20-134 W20-135 W20-136 W20-137 W20-138 W20-139

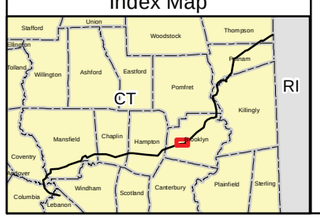
S20-41F S20-41G S20-42 S20-42A

171 172 173 174 175 176 177 178 179 180 181 182 183 184 185

9171 9172 9173 9174 9175 9176 9177 9178 9179 9180 9181 9182 9183 9184

PFO PSS PEM OW OFS HY UF

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 19 of 40

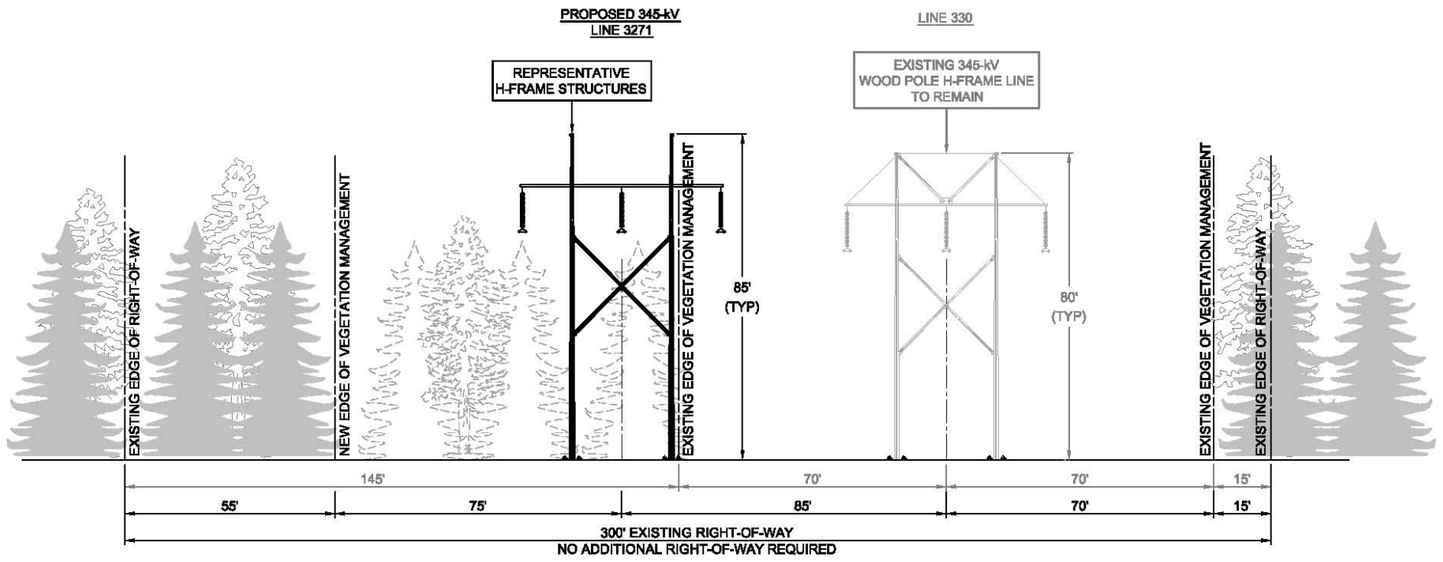
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 20 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9184 to 9190
West of Laurel Hill Road to Costello Road
Town of Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Commercial/Industrial
- Agricultural
- CT Protected/Open Space (Milo Appley Conservation Showcase, Eastern CT Conservation District, Municipal Property managed by the Town of Brooklyn and Wolf Den Land Trust, privately managed)
- Brooklyn Green Historic District

Zoning
- Current:
  - Residential Agricultural (RA)
  - Village Center District (VCD)

Natural Systems
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Open water (ponds)
- Blackwell Brook and its associated tributaries
- Lesage Pond
- Cunneek Pond
- Pielola Pond
- Tanner Brook and its associated tributaries
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Blackwell Brook

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structure 9186
- CT Protected/Open Space – Milo Apply Conservation Showcase adjacent to and between structures 9188 to 9190
- Upland and/or wetland forest adjacent to structures 9184 to 9192

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-139, W20-140, W20-141, W20-142, W20-143, W20-144, W20-145, W20-146, W20-147, W20-148, W20-149
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-42B, S20-43 and S20-44 (Blackwell Brook)

Potential Access
- Structures 9184 to 9187 can be accessed from Laurel Hill Road
- Structures 9188 to 9190 can be accessed from Wolf Den Road

Existing Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Broad, gentle slopes to hilly

Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Laurel Hill Road between structures 9185 and 9186
- Wolf Den Road between structures 9190 and 9191

Match Line Maps 20 and 21 of 40

Match Line Maps 19 and 20 of 40

Connecticut Natural Diversity Data Base Area

Blackwell Brook

Cunneek Pond

WOLF DEN RD

COSTELLO RD

LAUREL HILL RD

BROOKLYN

VCD

Brooklyn Green Historic District

Milo Appley Conservation Showcase

Milo Appley Conservation Trails

Tanner Brook

Pielola Pond

Lesage Pond

RA

W20-138 W20-139 W20-140 W20-141 W20-142 W20-143 W20-144 W20-145 W20-146 W20-147 W20-148 W20-149

S20-42B S20-43 S20-44

184 185 186 187 188 189 190 191 192

9183 9184 9185 9186 9187 9188 9189 9190 9191 9192

PFO PSS OFS UF HY OW PEM

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 20 of 40

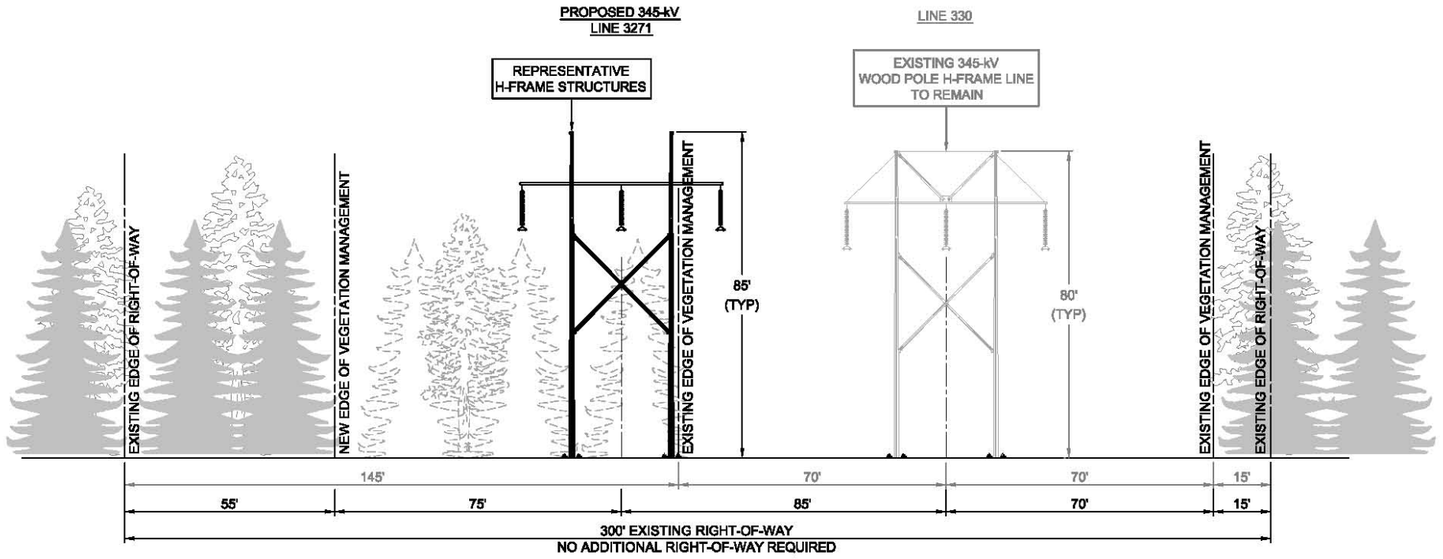
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 21 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9191 to 9198
Costello Road to State Route 169 (Pomfret Road)
Town of Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- CT Protected/Open Space (Municipal Property managed by the Town of Brooklyn and Wolf Den Land Trust, privately managed)
- Brooklyn Green Historic District
- State Route 169 National Scenic Byway

Zoning
- Current:
  - Residential Agricultural (RA)
  - Village Center District (VCD)

Natural Systems
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Tanner Brook and its associated tributaries
- Cunneek Pond
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9191 and 9198
- Upland and/or wetland forest adjacent to structures 9191 to 9198

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-150
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream No.: S20-45 (Tanner Brook)

Potential Access
- Structures 9191 to 9192 can be accessed from either Wolf Den Road or Costello Road
- Structures 9193 to 9198 can be accessed from either Costello Road or State Route 169/Pomfret Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Moderate to steep slopes

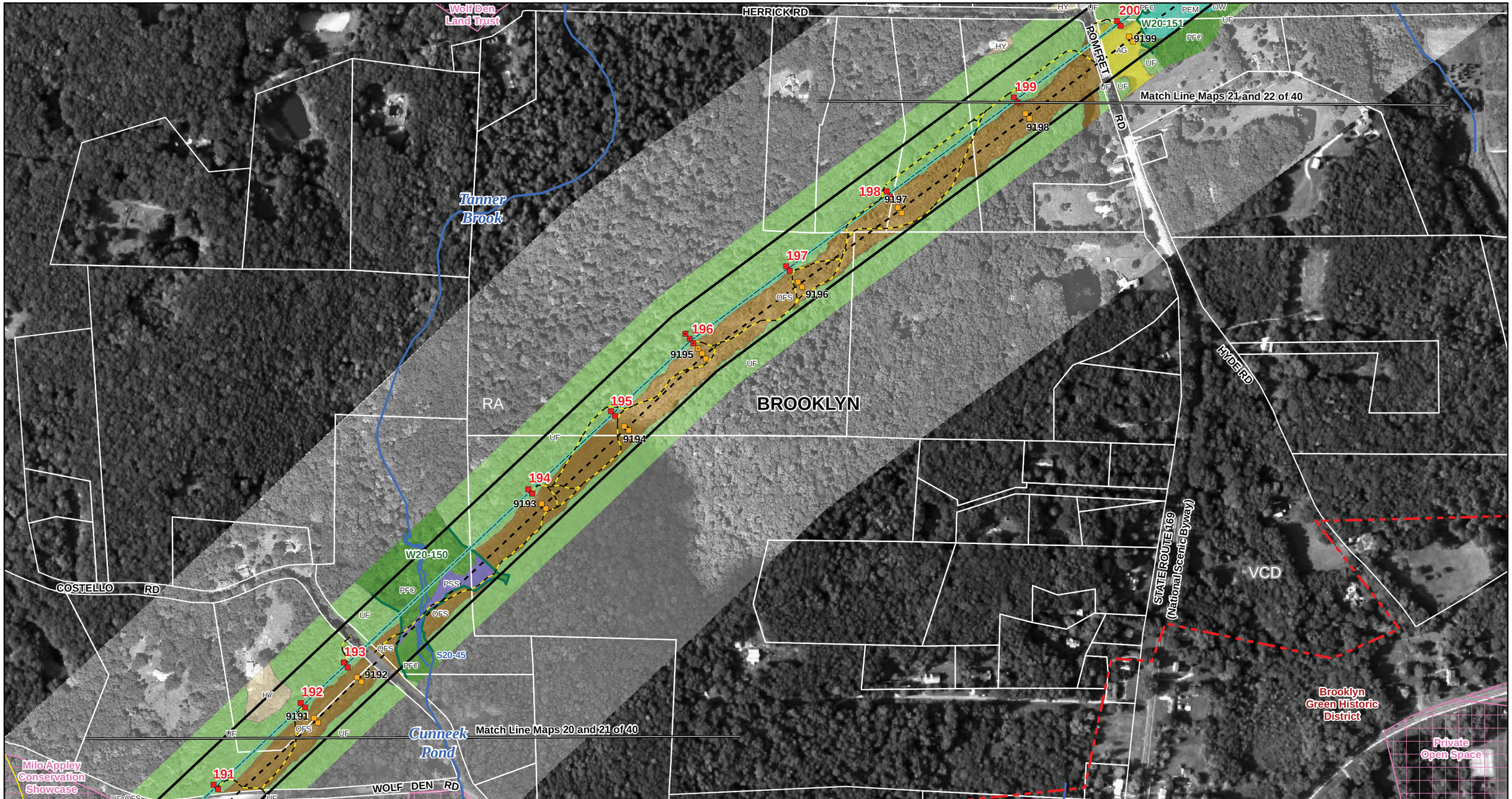
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

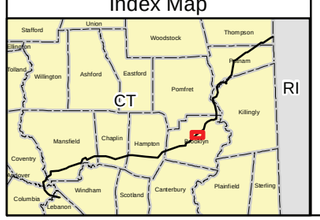
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Costello Road between structures 9192 and 9193



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 21 of 40

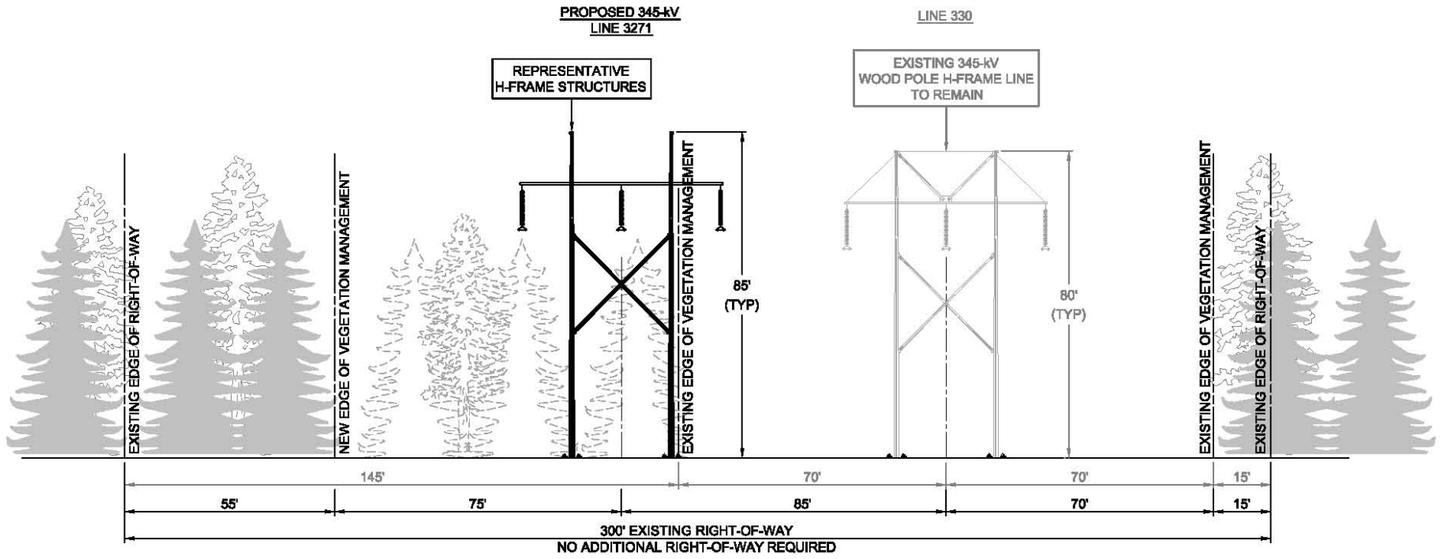
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 22 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9199 to 9203
State Route 169/Pomfret Road to North of White Brook
Town of Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Wolf Den Land Trust, privately managed; Colonel Daniel Putnam Association, Inc., privately managed)
- State Route 169 (National Scenic Byway)

Zoning
- Current:
  - Residential Agricultural (RA)

Natural Systems
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Open water (ponds)
- Lester Williams Pond
- Gorman Pond
- White Brook and its associated tributaries
- Mixed hardwood forest varying in size and age
- 100-year flood zone – White Brook

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structure 9199
- Upland and/or wetland forest adjacent to structures 9199 to 9203

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-151, W20-152, W20-153
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-46, S20-47A, S20-47, S20-48, S20-49 (White Brook), S20-153

Potential Access
- Structures 9199 to 9203 can be accessed from State Route 169/Pomfret Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agriculture

Terrain
- Broad gentle slopes to steep

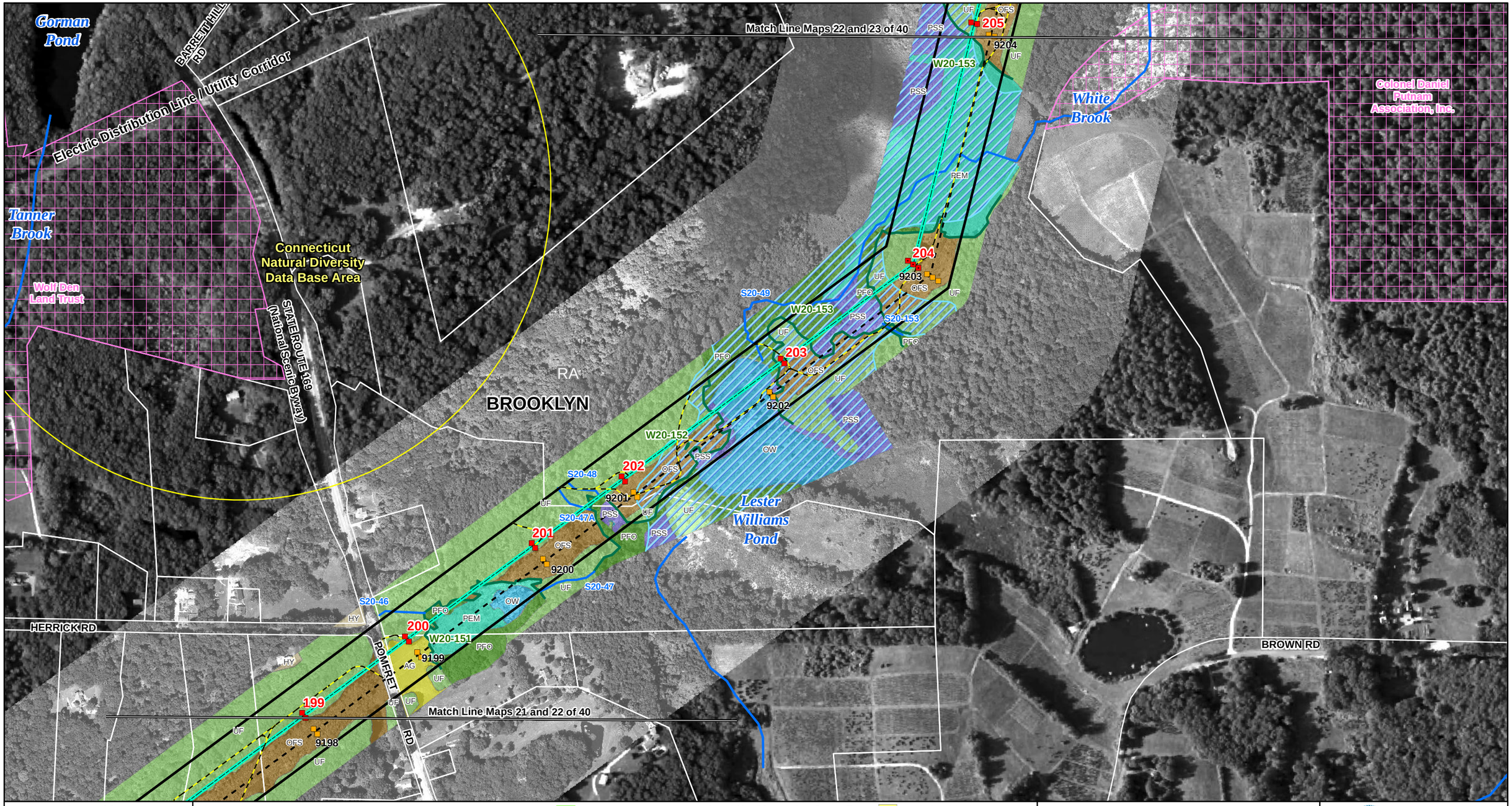
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

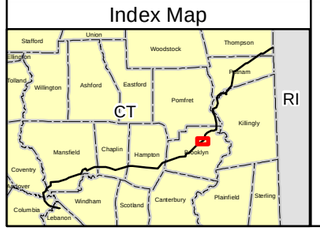
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- State Route169/Pomfret Road (National Scenic Byway) between structures 9198 and 9199



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 22 of 40

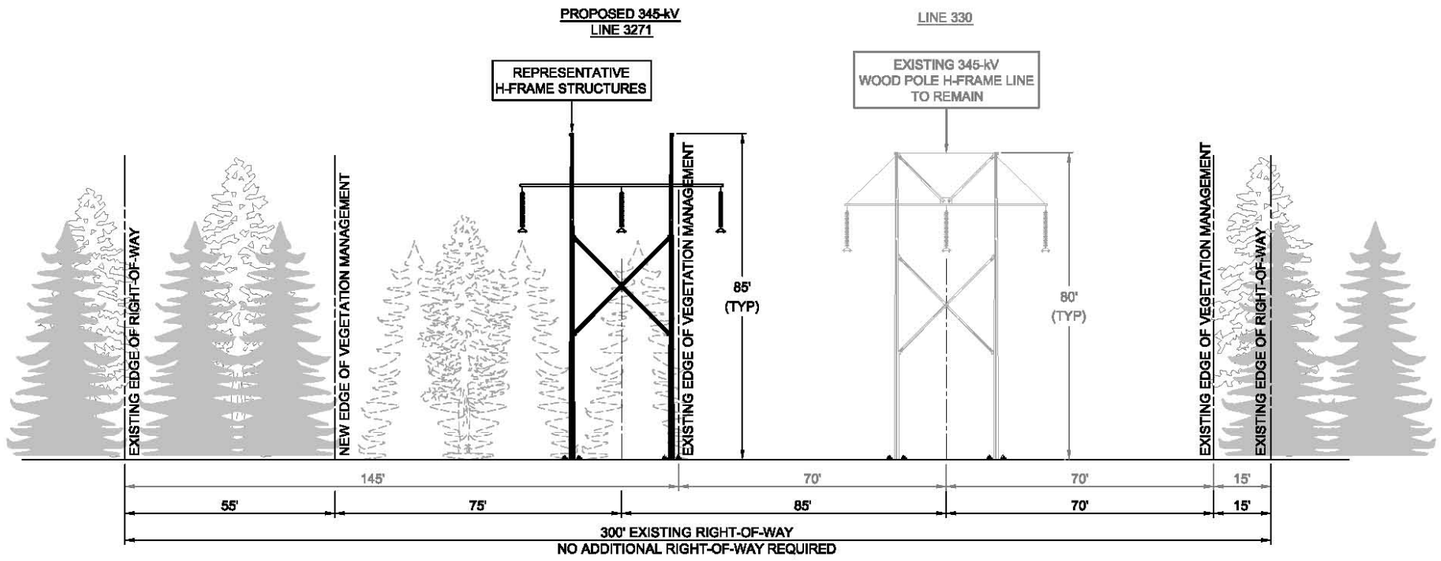
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 23 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9204 to 9208
North of White Brook to Darby Road
Town of Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Brooklyn Tennis Club, Colonel Daniel Putnam Association, Inc., Steven Townsend Trust, Wolf Den Land Trust [White Brook Sanctuary]; privately managed)

Zoning
- Current:
  - Residential Agricultural (RA)
  - Residence 30 Zone (R30)

Natural Systems
- White Brook and its associated tributaries
- Natural Diversity Data Base Area
- Creamery Brook and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age
- 100-year flood zone – White Brook

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to structures 9204 to 9208
- CT Protected/Open Space – Steven Townsend Trust vicinity of structures 9206 to 9207

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-153, W20-154, W20-154A, W20-155, W20-156, W20-157
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-49A, S20-49B, and S20-50/-51 (White Brook)

Potential Access
- Structures 9204 to 9208 can be accessed from Church Street (see Mapsheet 24 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Broad, gentle slopes to moderate

Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Electric Distribution Line/utility corridor between structures 9206 to 9207

Wolf Den Land Trust (White Brook Sanctuary)

Match Line Maps 23 and 24 of 40

Brooklyn Tennis Club

W20-157

S20-51

209

9208

S20-50

W20-155

W20-156

W20-154A

208

9207

White Brook

Creamery Brook

R 30

Electric Distribution Line / Utility Corridor

S20-49B

S20-49A

Steven Townsend Trust

BROOKLYN

RA

207

9206

BARRETT HILL RD

Electric Distribution Line / Utility Corridor

White Brook

W20-154

Colonel Daniel Putnam Association, Inc.

206

9205

Connecticut Natural Diversity Data Base Area

Match Line Maps 22 and 23 of 40

205

9204

W20-153

PFO PSS PEM UF OFS OW

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 23 of 40

Connecticut Light & Power
A Northeast Utilities Company

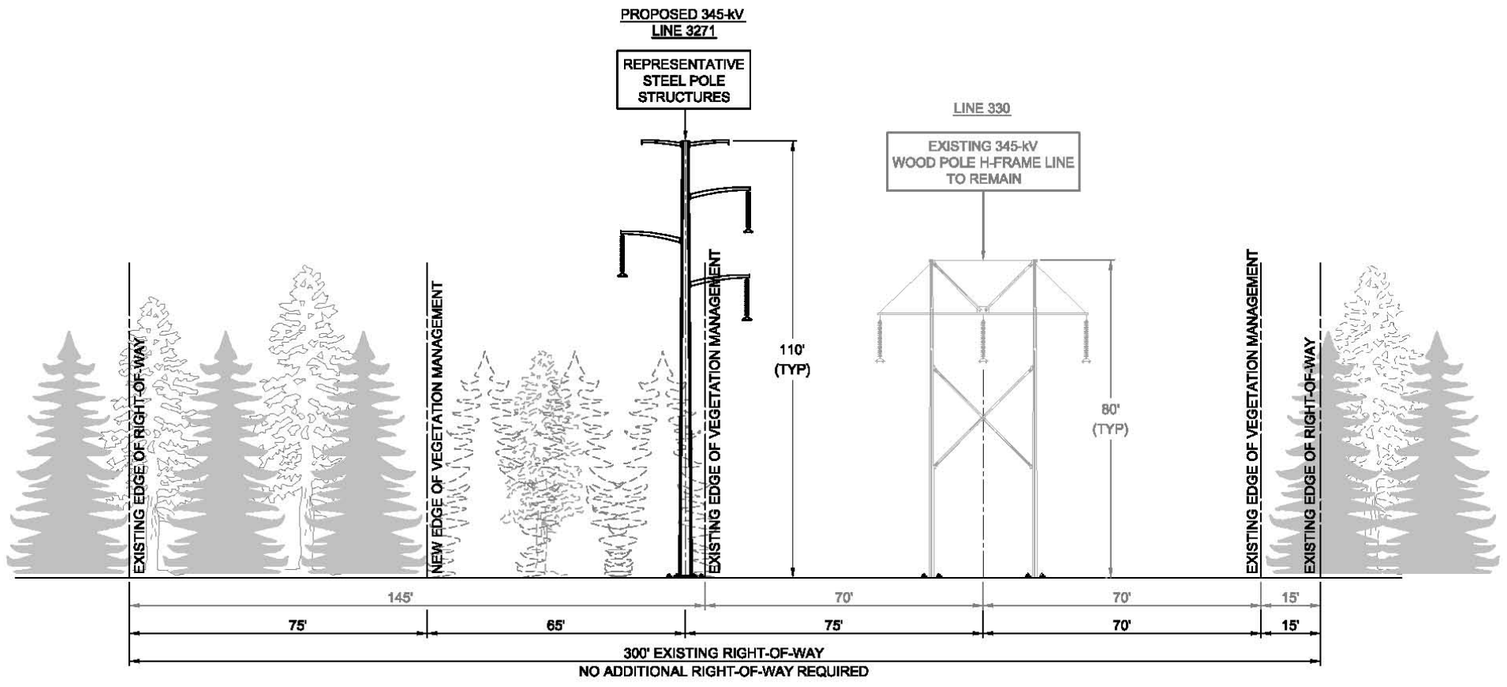
AECOM

Date: December 2011

MAPSHEET 24 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9209 to 9221
Darby Road to North of Day Street Junction
Town of Brooklyn, CT

Note: XS-6 BMP (depicted) illustrates the Proposed ROW Configuration from Structures 9210 to 9219. Refer to XS-6 on Mapsheet 23 for Proposed Configuration at Structure 9209, and to XS-7 on Mapsheet 25 for Proposed Configuration for Structures 9220 to 9221.



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- CT Protected/Open Space (Brooklyn Tennis Club privately managed and Wolf Den Land Trust White Brook Sanctuary)
- Quinebaug River Trail: Public recreational trail on NU property
- Commercial/Industrial (Brooklyn Substation)

Zoning
- Town of Brooklyn
  - Current:
    - Residential Agricultural (RA)
    - Residence 30 Zone (R30)
- Town of Killingly
  - Current:
    - Low Density (LD)

Natural Systems
- State/Federal jurisdictional wetlands
- White Brook and its associated tributaries
- Creamery Brook and its associated tributaries
- Quinebaug River and its associated tributary
- Mixed hardwood forest varying in size and age
- 100-year flood zone– Creamery Brook, White Brook

Visual Character
- Agricultural, residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- CT Protected/Open Space – Wolf Den Land Trust White Brook Sanctuary vicinity of structures 9209 to 9210
- Residential near structures 9211 to 9218
- Agricultural adjacent to and between structures 9218 and 9220, and 9221
- Upland and/or wetland forest adjacent to structures 9209 to 9214, 9218 to 9221

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-157, W20-158, W20-159, W20-159[a], W20-160
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Forested Wetland (PFO), Palustrine Scrub-Shrub Wetland (PSS), Open Water (OW)
- Stream Nos.: S20-51 (White Brook), S20-52 (Creamery Brook), S20-53, S20-54A

Potential Access
- Structures 9209 to 9218 can be accessed from Church Street
- Structures 9219 to 9221 can be accessed from Day Street

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain
- Broad, gentle slopes

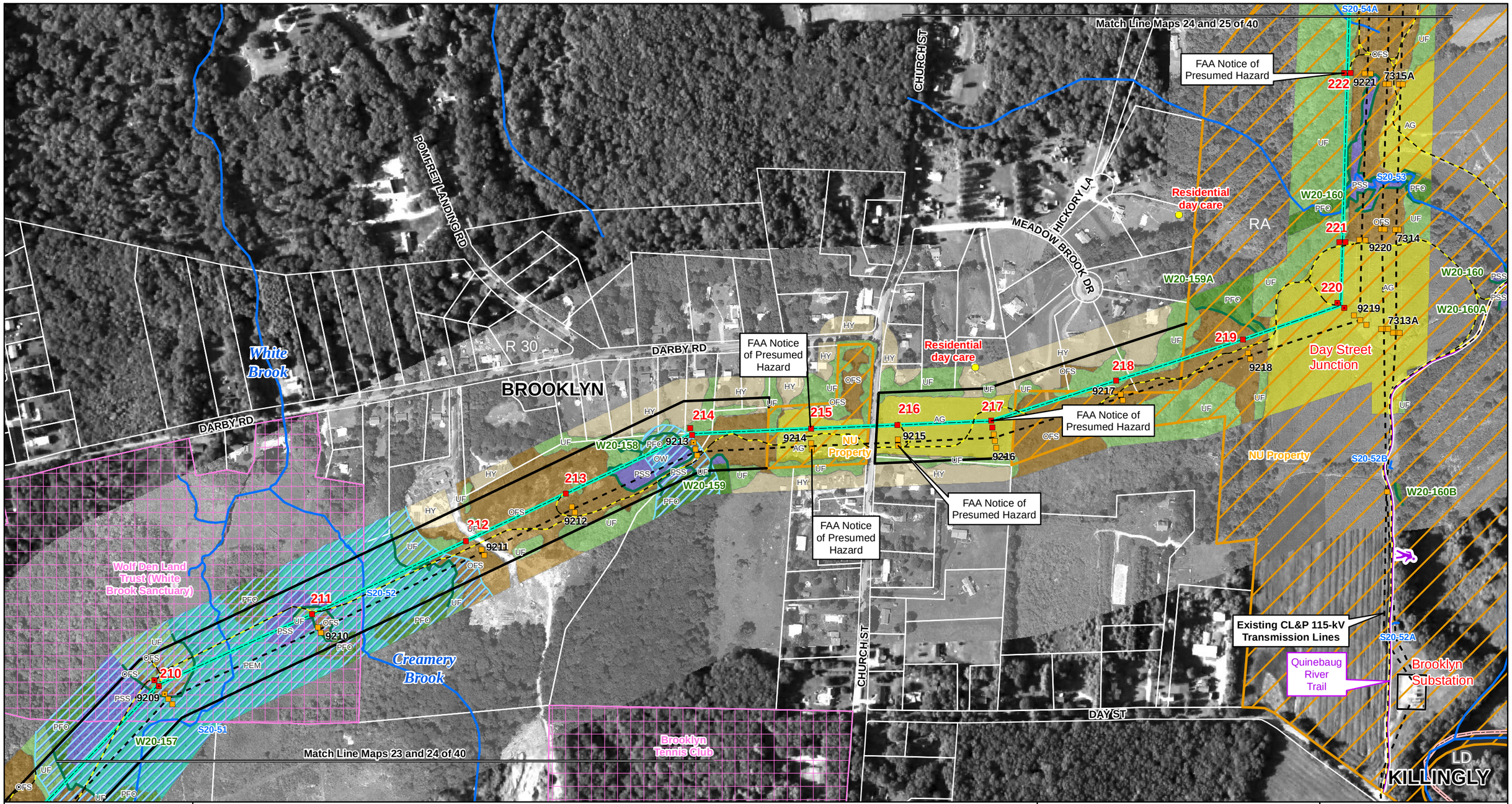
Existing Right-of-Way Width
- 300 to 360 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

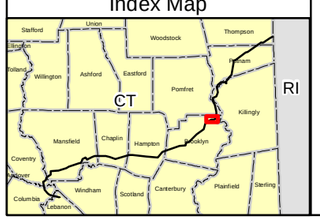
Existing Managed Right-of-Way Width
- 140 to 360 feet

Proposed Additional Managed Right-of-Way Width
- 70 to 90 feet

Road Crossings/Major Utility Crossings
- Private, unnamed road between structures 9211 and 9212
- Church Street between structures 9214 and 9215



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 24 of 40

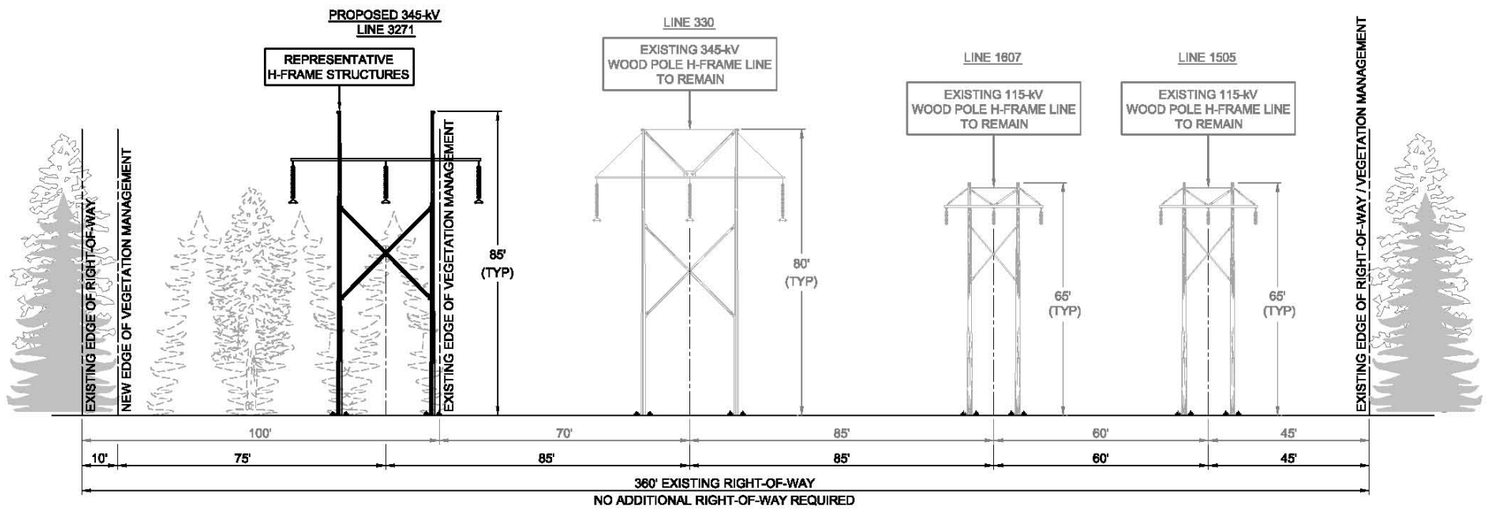
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 25 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9222 to 9227
North of Day Street Junction to Woods Hill Road
Towns of Brooklyn and Pomfret, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected / Open Space (Town of Killingly)
- Quinebaug River Trail; Public recreational trail on NU property

Zoning
- Town of Brooklyn
  - Current:
    - Residential Agriculture (RA)
- Town of Pomfret
  - Current:
    - Commercial/Business (CB)
    - Rural Residential (RR)
- Town of Killingly
  - Current:
    - Low Density (LD)

Natural Systems
- Quinebaug River and its associated tributaries
- Mixed hardwood forest varying in size and age
- Natural Diversity Data Base Areas

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Agricultural adjacent to and between structures 9222, and 9224 to 9227
- Upland forest adjacent to structures 9222 to 9226

Wetlands, Watercourses and Waterbodies
- Stream Nos.: S20-54A, S20-54

Potential Access
- Structures 9222 to 9227 can be accessed from Day Street (see Mapsheet 24 of 40)

Right-of-Way Vegetation
- Open Field-Shrub, upland forest, agricultural

Terrain
- Moderate slopes

Existing Right-of-Way Width
- 360 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 260 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- None

Match Line Maps 25 and 26 of 40

Connecticut Natural Diversity Data Base Area

KILLINGLY

Quinebaug River

FAA Notice of Presumed Hazard

9227 7320A 228

9226 7319 227

9225 226

9224 225

9223 7317A 224

9222 7316 223

UF AG CB OFS

POMFRET

WOODS HILL RD

RR

CHURCH ST

RA

BROOKLYN

S20-54

S20-54A

NU Property

Quinebaug River Trail

Town Open Space

KILLINGLY LD

Match Line Maps 24 and 25 of 40

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 25 of 40

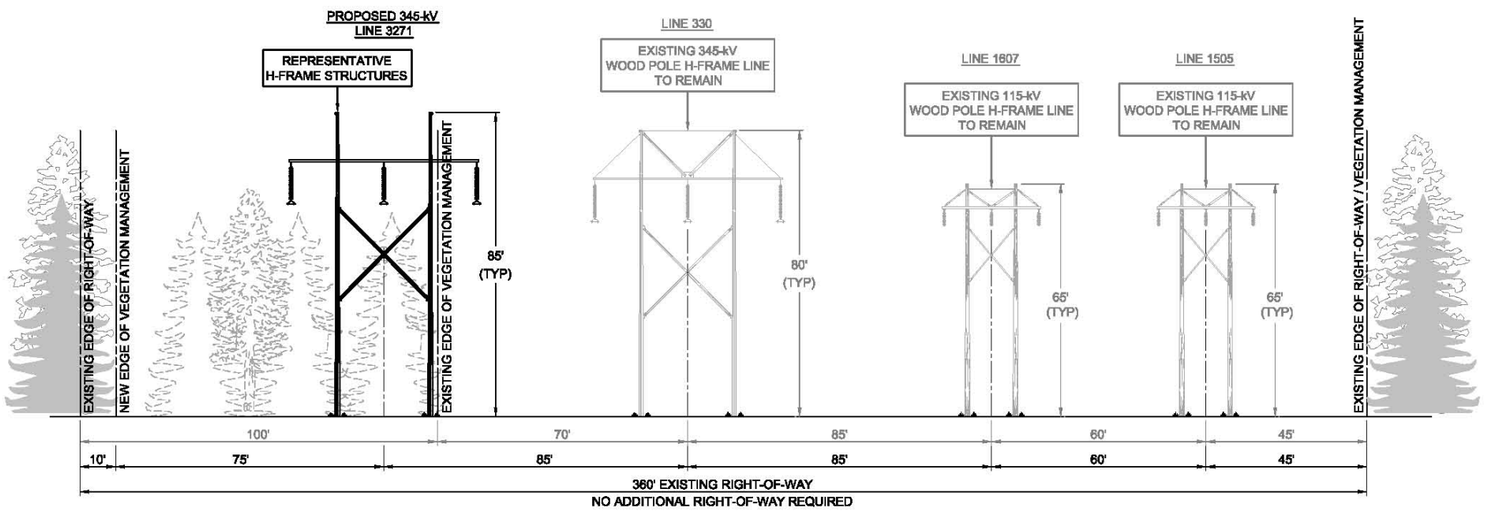
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 26 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9228 to 9233
Woods Hill Road to South of State Route 101/Killingly Road
Town of Pomfret, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Commercial/Industrial
- Residential
- Rogers Village Historic District (Killingly)
- CT Protected/Open Space (Goodyear School, Killingly; Town open space, Pomfret)

Zoning
- Town of Pomfret
  - Current:
    - Commercial/Business (CB)
    - Rural Residential (RR)
- Town of Killingly
  - Current:
    - Low Density (LD)
    - Residential (RD)
    - Medium Density (MD)
    - Industrial (I)

Natural Systems
- Quinebaug River and its associated tributaries
- Goodyear Pond
- Mixed hardwood forest varying in size and age
- Natural Diversity Data Base Areas

Visual Character
- Agricultural, commercial/industrial, residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Agricultural adjacent to and between structures 9228 and 9229
- Upland forest adjacent to 9229 to 9233
- CT Protected/Open Space – Town of Pomfret open space near structure 9233

Wetlands, Watercourses and Waterbodies
- Wetland No: W20-161A
- Wetland Cover Type: Palustrine Forested Wetland (PFO)

Potential Access
- Structures 9228 to 9333 can be accessed from either Day Street (see Mapsheet 24 of 40) or State Route 101/Killingly Road (see Mapsheet 27 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland forest, agricultural

Terrain
- Moderate slopes

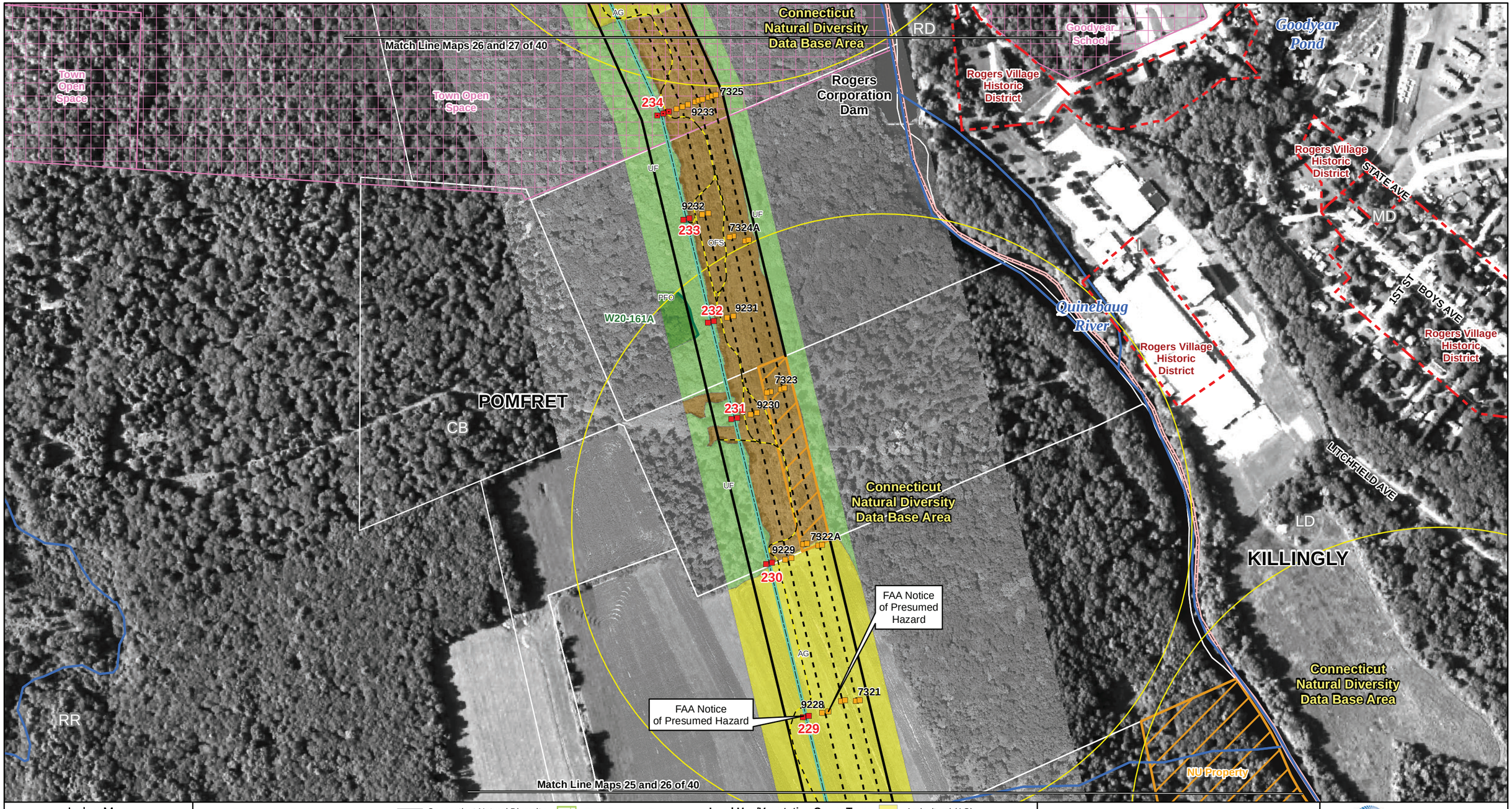
Existing Right-of-Way Width
- 360 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 260 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- None



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 26 of 40

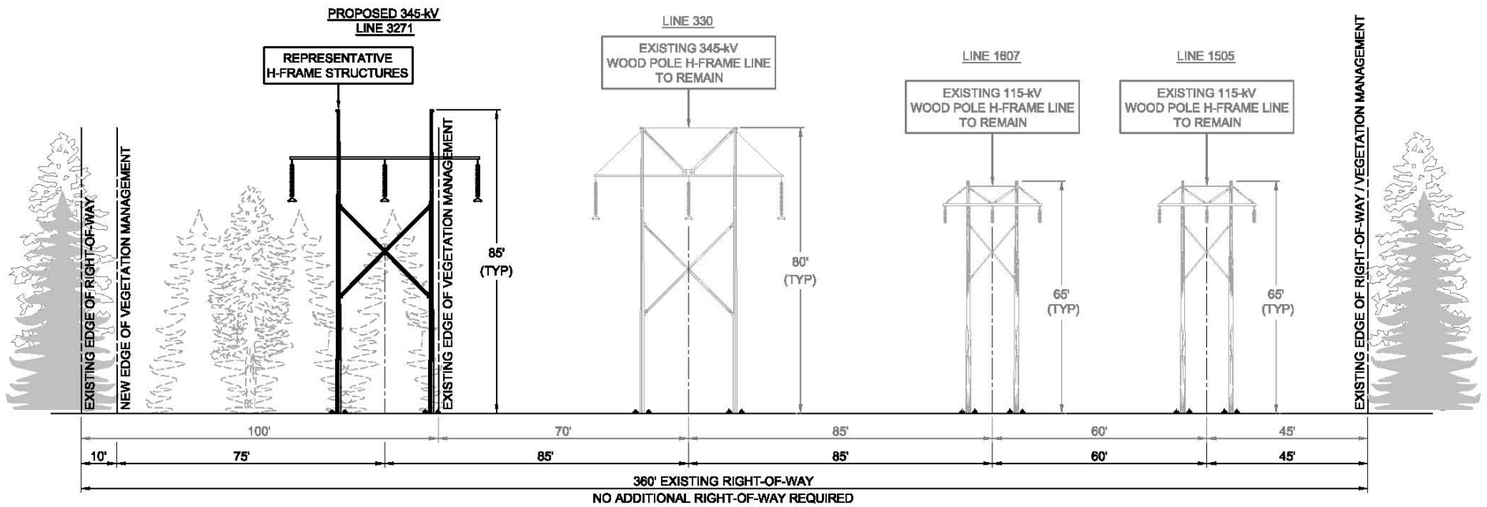
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 27 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9234 to 9239
South of State Route 101/Killingly Road to North of Quinebaug River
Towns of Pomfret and Killingly, CT



AREA DESCRIPTION

Existing Land Use

- Residential
- Agricultural
- Commercial/Industrial
- CT Protected/Open Space (Goodyear School, Wyndham Land Trust (Lyon Preserve), privately managed); Town of Pomfret Open Space; Killingly Open Space
- Town of Pomfret Canoe/Kayak Public Boat Launch; Quinebaug River)
- Rogers Village Historic District (Killingly)

Zoning

- Town of Pomfret
  - Current:
    - Commercial/Business (CB)
    - Rural Residential (RR)
    - Commercial Village (CV)
- Town of Killingly
  - Current:
    - Low Density (LD)
    - Residential (RD)
    - Medium Density (MD)
    - Industrial (I)
    - Professional and Business Offices (PBO)

Natural Systems

- State/Federal jurisdictional wetlands
- Quinebaug River and its associated tributaries
- Mashamoquet Brook and its associated tributaries
- White Brook and its associated tributaries
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Quinebaug River
- Natural Diversity Data Base Areas

Visual Character

- Residential, commercial/industrial, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use

- Agricultural adjacent to and between structures 9234 to 9235
- Residential near structure 9238
- Upland and/or wetland forest adjacent to structures 9234 to 9237, 9238, and 9239
- CT Protected/Open Space – Town of Pomfret near structures 9234 to 9237; including public canoe/kayak boat launch near State Route 101

Wetlands, Watercourses and Waterbodies

- Wetland Nos.: W20-161, W20-162, W20-163, W20-164
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW), State Wetland (SW)
- Stream No.: S20-55 (Quinebaug River)

Potential Access

- Structures 9234 to 9235 can be accessed from either State Route 101/Killingly Road or Day Street (see Mapsheet 24 of 40)
- Structures 9236 to 9238 can be accessed from State Route 101/Killingly Road; Structure 9239 can be accessed from Lake Road (see Mapsheet 28 of 40)

Right-of-Way Vegetation

- Open field-shrub, upland and wetland forest, agricultural

Terrain

- Broad, gentle slopes to moderate

Existing Right-of-Way Width

- 360 feet

Proposed Expansion of Right-of-Way Width

- 0 feet

Existing Managed Right-of-Way Width

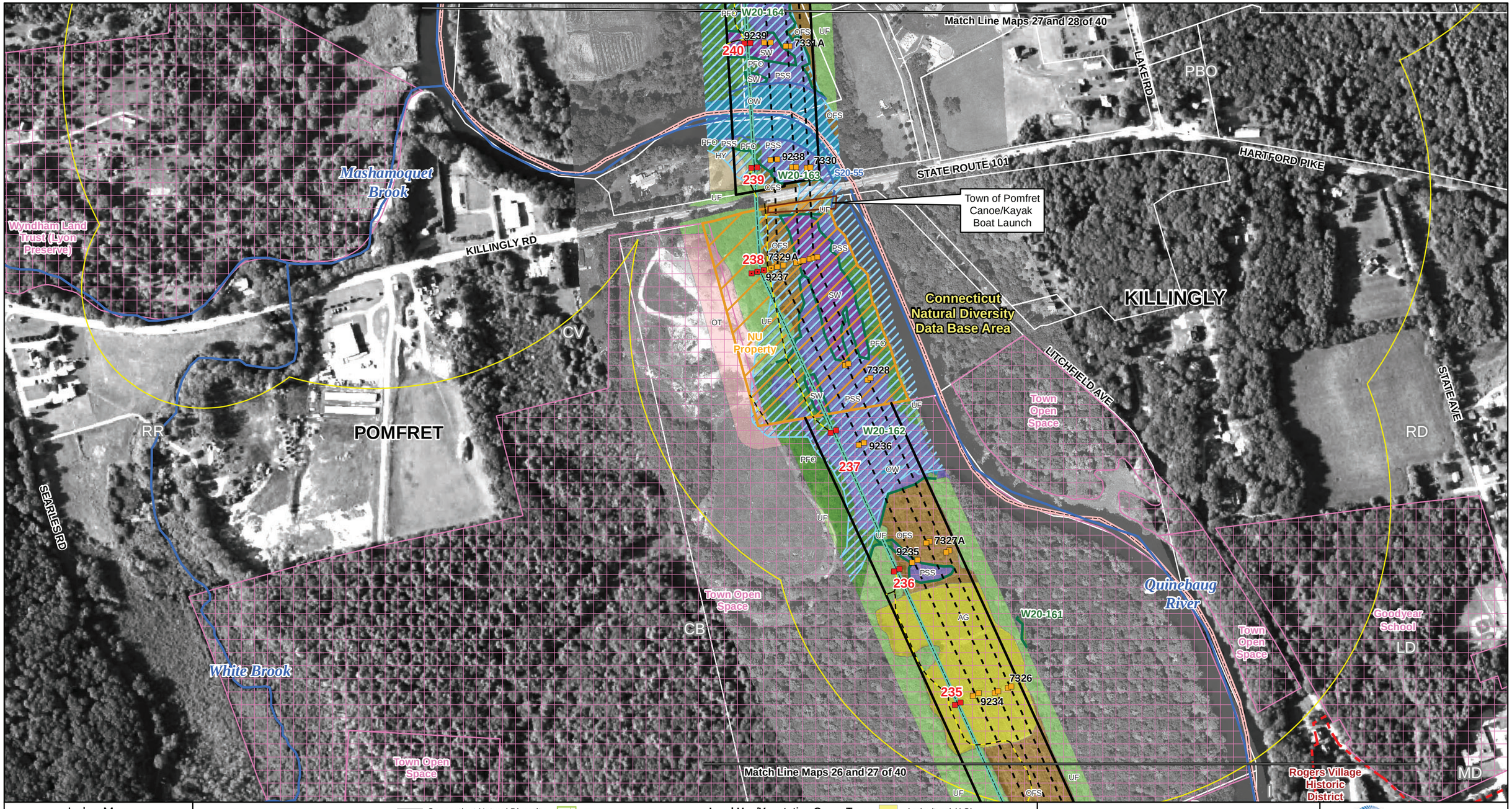
- 260 feet

Additional Managed Right-of-Way Width Required

- 0 to 90 feet

Road Crossings/Major Utility Crossings

- State Route 101/Killingly Road between structures 9237 and 9238



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 27 of 40

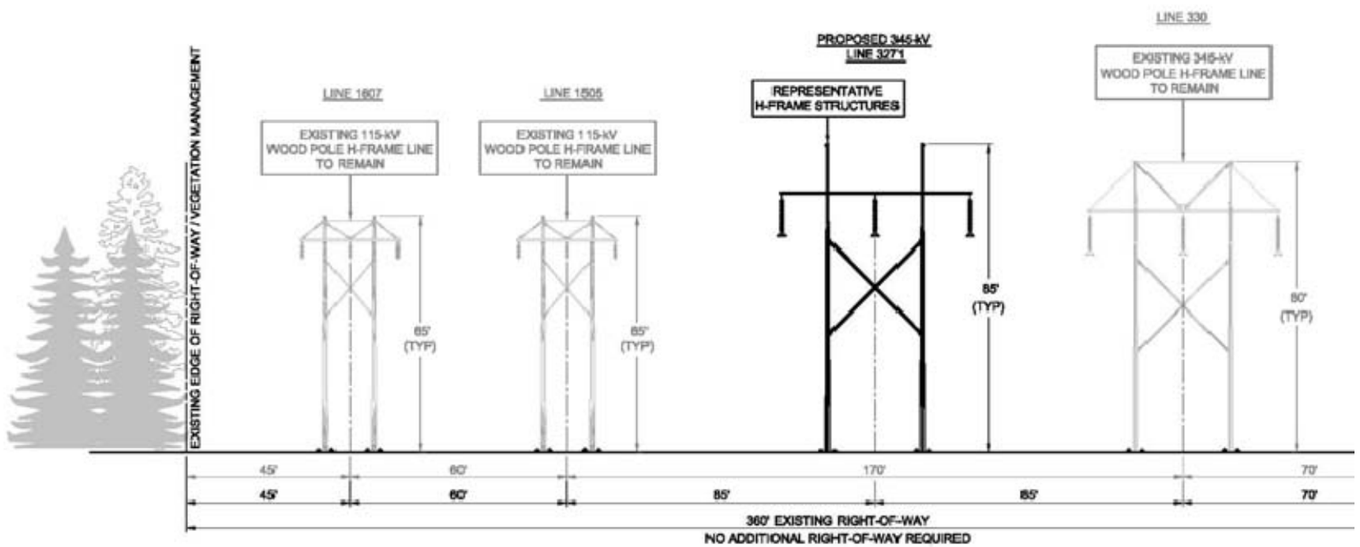
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 28 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9240 to 9247
North of Quinebaug River to North of Lake Road
Town of Killingly, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Commercial/Industrial
- CT Protected Open Space (Wyndam Land Trust [Dunn Preserve], Alexander's Lake Conservation and Rentals, Inc., privately managed)

Zoning
- Town of Pomfret
  - Current:
    - Rural Residential (RR)
- Town of Killingly
  - Current:
    - Low Density (LD)
    - Residential (RD)
    - Industrial (I)
    - Professional and Business Offices (PBO)

Natural Systems
- Quinebaug River and its associated tributaries
- Alexander Lake
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Quinebaug River
- Natural Diversity Data Base Areas

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9240, and 9241 to 9242
- Agricultural adjacent to and between structures 9240, and 9241 to 9242
- Upland and/or wetland forest adjacent to structures 9240 to 9241, and 9242 to 9247

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-164, W20-165, W20-166, W20-167, W20-168, W20-169
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream Nos.: S20-56 (tributary to Quinebaug River), S20-57

Potential Access
- Structures 9240 to 9247 can be accessed from Lake Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain
- Moderate slopes

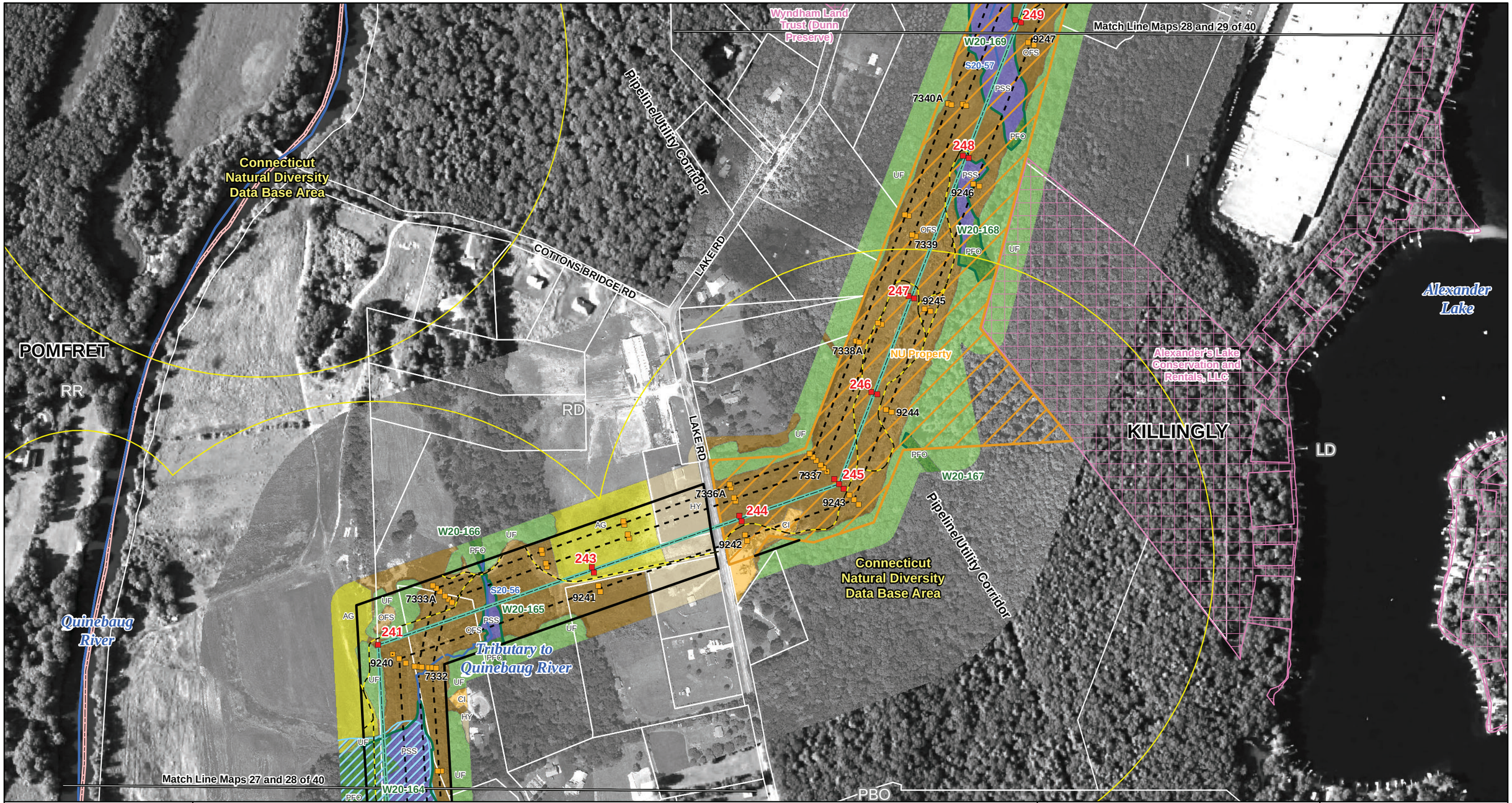
Existing Right-of-Way Width
- 360 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

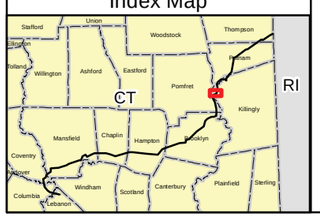
Existing Managed Right-of-Way Width
- 260 to 345 feet

Additional Managed Right-of-Way Width Required
- 90 feet from structures 9239 to 9240 only

Road Crossings/Major Utility Crossings
- Lake Road between structures 9241 and 9242
- Pipeline/Utility Corridor between structures 9243 and 9244



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 28 of 40

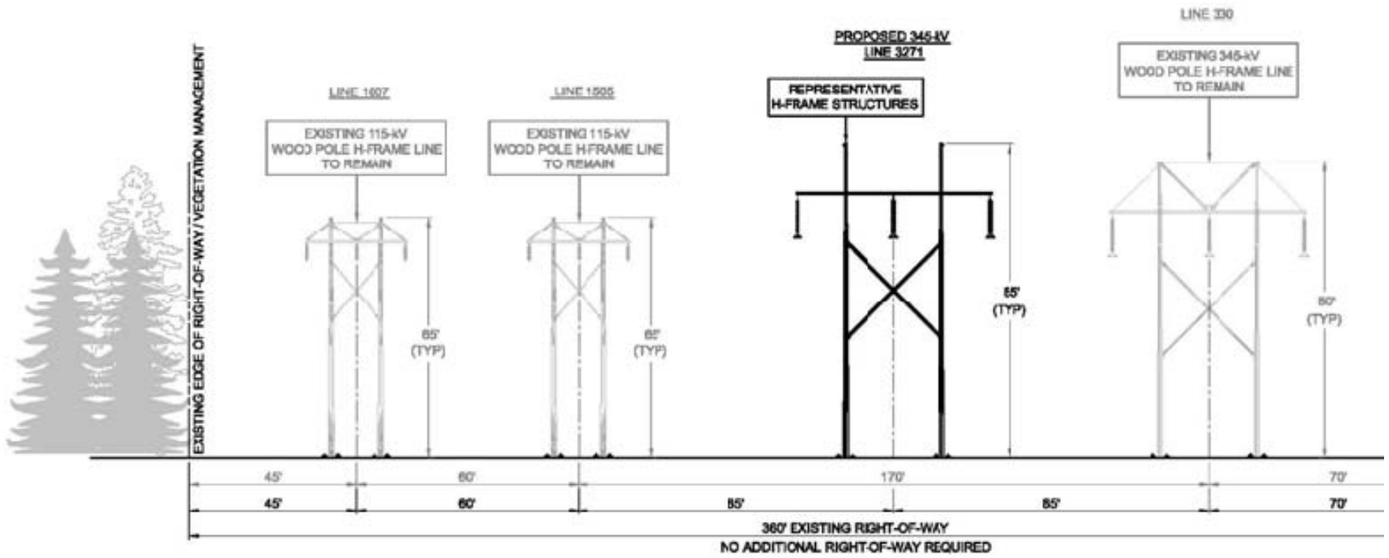
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 29 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9248 to 9253
North of Lake Road to South of Quinebaug River
Town of Killingly, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Bruce Cemetery, Wyndam Land Trust [Dunn Preserve]. Alexander's Lake Conservation and Rentals, Inc., privately managed; Town of Killingly open space)

Zoning
- Town of Pomfret
  - Current:
    - Rural Residential (RR)
- Town of Killingly
  - Current:
    - Low Density (LD)
    - Residential (RD)
    - Industrial (I)

Natural Systems
- Quinebaug River and its associated tributaries
- Alexander Lake
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age
- Natural Diversity Data Base Area

Visual Character
- Forest, commercial/industrial, and residential

RIGHT-OF-WAY DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to structures 9248 to 9253
- Agricultural adjacent to structure 9249

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-169, W20-170, W20-170A, W20-171, W20-171A
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Emergent Wetland (PEM), Palustrine Forested Wetland (PFO)
- Stream Nos.: S20-57, S20-57A

Potential Access
- Structures 9248 to 9253 can be accessed from Lake Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural

Terrain
- Moderate slopes

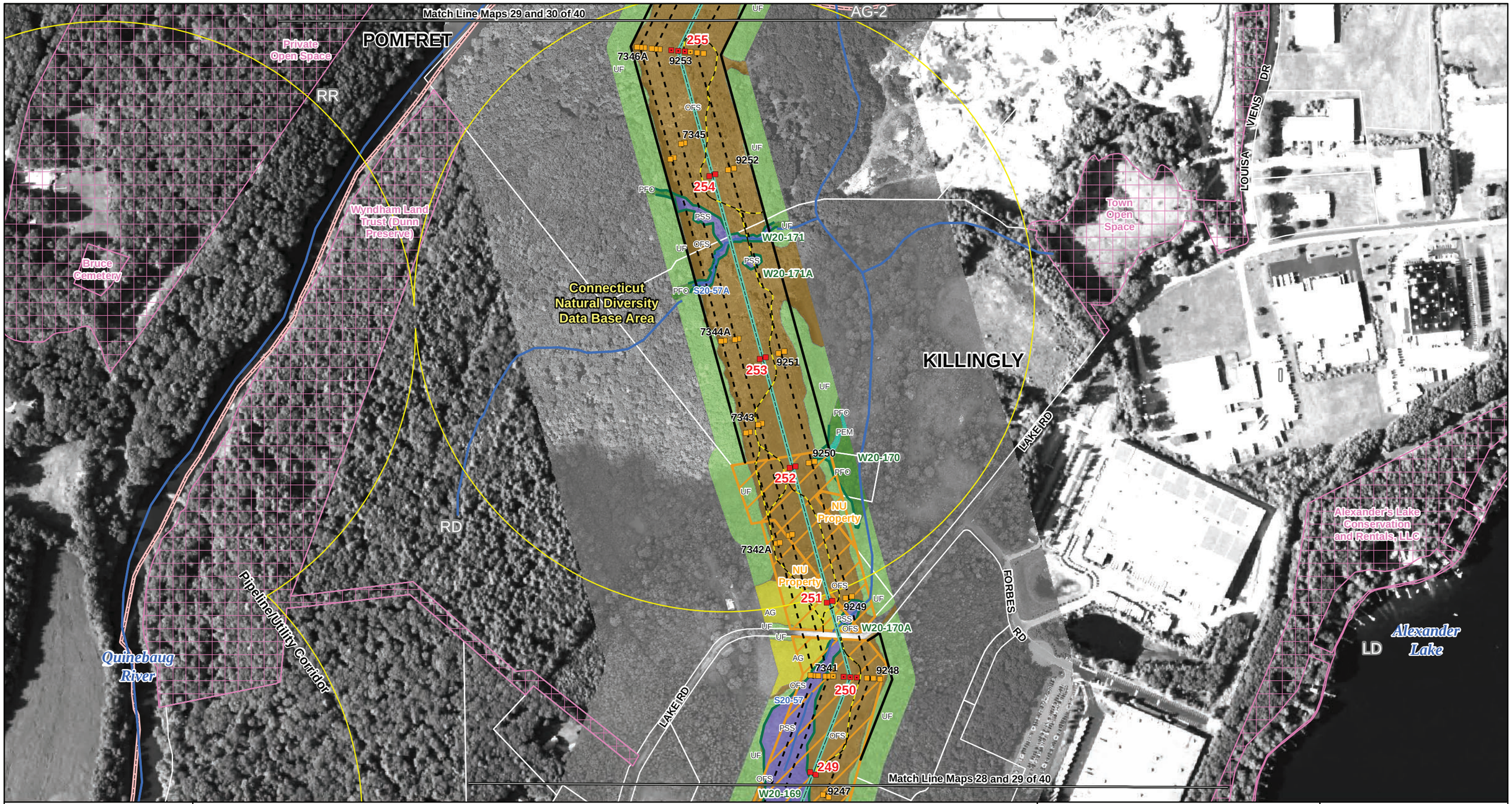
Existing Right-of-Way Width
- 360 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

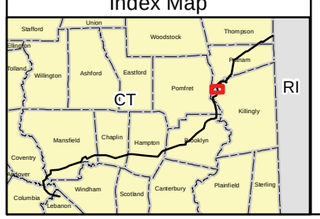
Existing Managed Right-of-Way Width
- 345 feet

Additional Managed Right-of-Way Width Required
- 0 feet

Road Crossings/Major Utility Crossings
- Lake Road between structures 9248 and 9249



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 29 of 40

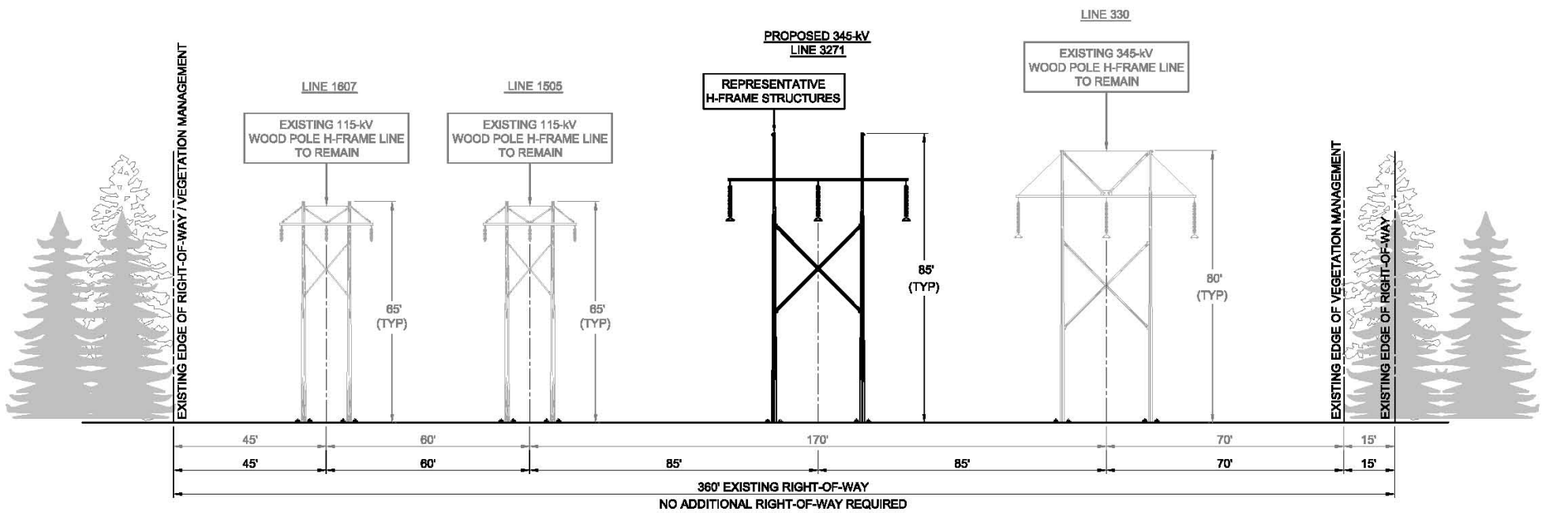
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 30 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9254 to 9259
Quinebaug River to North of Louisa Viens Drive
Towns of Killingly and Putnam, CT



AREA DESCRIPTION

Existing Land Use
- Agriculture
- Commercial/Industrial (Rock Quarry)
- Residential
- Town and private open space

Zoning
- Town of Pomfret
  - Current:
    - Rural Residential (RR)
- Town of Killingly
  - Current:
    - Residential (RD)
    - Industrial (I)
- Town of Putnam
  - Current:
    - Agriculture (AG-2)

Natural Systems
- Quinebaug River and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Quinebaug River
- Natural Diversity Data Base Areas

Visual Character
- Residential, forest, and commercial/industrial

RIGHT-OF-WAY DESCRIPTION

Land Use
- Agricultural adjacent to and between structures 9254 and 9255
- Commercial/Industrial (Quarry) adjacent to and between structures 9255 to 9259
- Upland forest adjacent to and between structures 9254, and 9258 to 9259

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-172, W20-173, W20-174, W20-175, W20-176, W20-177
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW), State Wetland (SW)
- Stream Nos.: S20-58 (Quinebaug River), S20-59 (Quinebaug River)

Potential Access
- Structures 9254 to 9259 can be accessed from River Road

Right-of-Way Vegetation
- Open field-shrub, upland forest, agricultural

Terrain
- Broad, gentle slopes to steep

Existing Right-of-Way Width
- 360 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 345 feet

Additional Managed Right-of-Way Width Required
- 0 feet

Road Crossings/Major Utility Crossings
- None

Town Open Space

RIVER RD

Connecticut Natural Diversity Data Base Area

AG-2

PUTNAM

7352A 7353 261 9259 7351 260 9258 7350A 259 9257 CI 7349 258 9256 7348A 257 9255 7347 256 9254 255

W20-175 W20-174 W20-173 W20-172 W20-176 W20-177 W20-178

S20-58 S20-59

UF PSS PFO OFS OW SW AG

7354A 7355 262 263 9260 9261

Quinebaug River

Match Line Maps 30 and 31 of 40

VIENS DR

LOUISA

KILLINGLY

POMFRET

Private Open Space

RR RD

Match Line Maps 29 and 30 of 40

Connecticut Natural Diversity Data Base Area

Town Open Space

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 30 of 40

Connecticut Light & Power
A Northeast Utilities Company

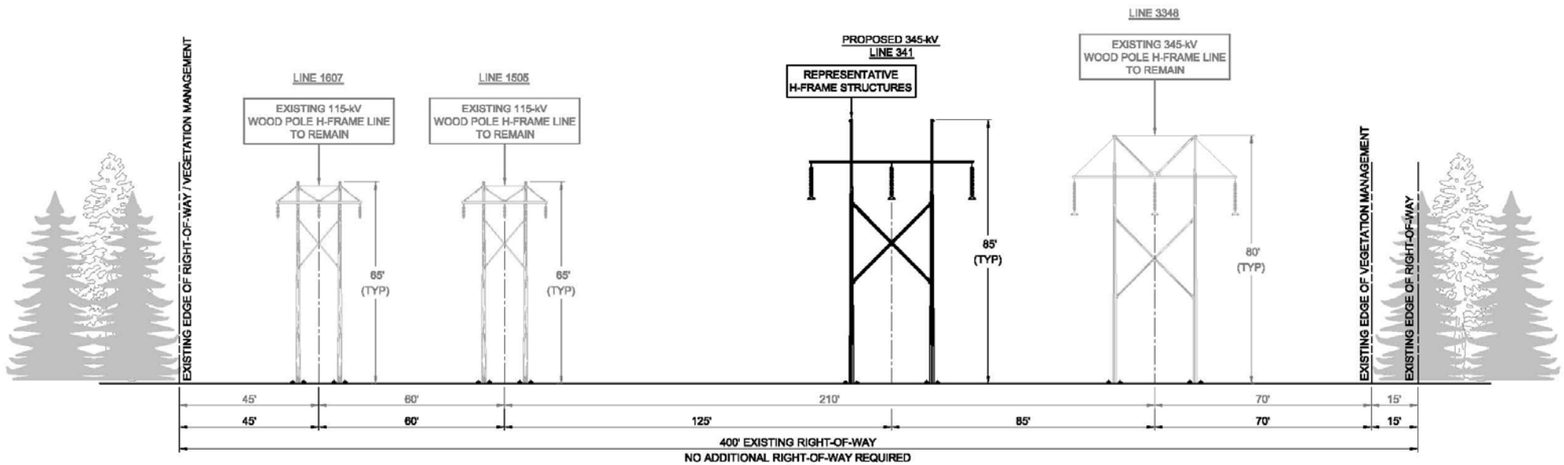
AECOM

Date: December 2011

MAPSHEET 31 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9260 to 9269
North of Louisa Viens Drive (including U.S. Interstate 395) to Killingly Substation
Towns of Putnam and Killingly, CT

Note: XS-10 (depicted) illustrates the Proposed ROW Configuration between Structures 9265 to 9267. Refer to XS-8 on Mapsheet 30 for Proposed Configuration for Structures 9260 to 9262, XS-9 in Volume 10 for Structures 9263 and 9264, and XS-11 on Mapsheet 32 for Structures 9268 and 9269.



AREA DESCRIPTION

Existing Land Use
- Commercial/Industrial (Staples Warehouse, Landfills, Lake Road Switching Station, Killingly Substation)
- Residential
- Agricultural
- CT Protected/Open Space (Natchaug State Forest managed by the CT DEEP); Tracey Road Trail (ConnDOT/CT DEEP urban recreational trail)

Zoning
- Town of Killingly
  - Current:
    - Residential (RD)
    - Industrial (I)
    - Mixed-Use Interchange (MU)
- Town of Putnam
  - Current:
    - Agriculture (AG-2)
    - Residence 10 Zone (R-10)
    - Industrial (I)

Natural Systems
- Quinebaug River and its associated tributaries
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Quinebaug River
- Natural Diversity Data Base Areas

Visual Character
- Residential, forest, agricultural, and commercial/industrial

RIGHT-OF-WAY DESCRIPTION

Land Use
- Commercial/Industrial adjacent to and between structures 9264, and 9266 to 9269, including Lake Road Junction, Lake Road Switching Station and Killingly Substation
- Upland and/or wetland forest adjacent to structures 9260 to 9263, 9265 to 9266, and 9268 to 9269

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-177, W20-178, W20-179
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW), State Wetland (SW)
- Stream No.: S20-59 (Quinebaug River)

Potential Access
- Structures 9260 to 9264 can be accessed from Louisa Viens Drive (see Mapsheet 30 of 40)
- Structures 9265 and 9266 can be accessed from U.S. Interstate 395 northbound
- Structures 9267 to 9269 can be accessed from Park Road (see Mapsheet 32 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Broad, gentle slopes to steep

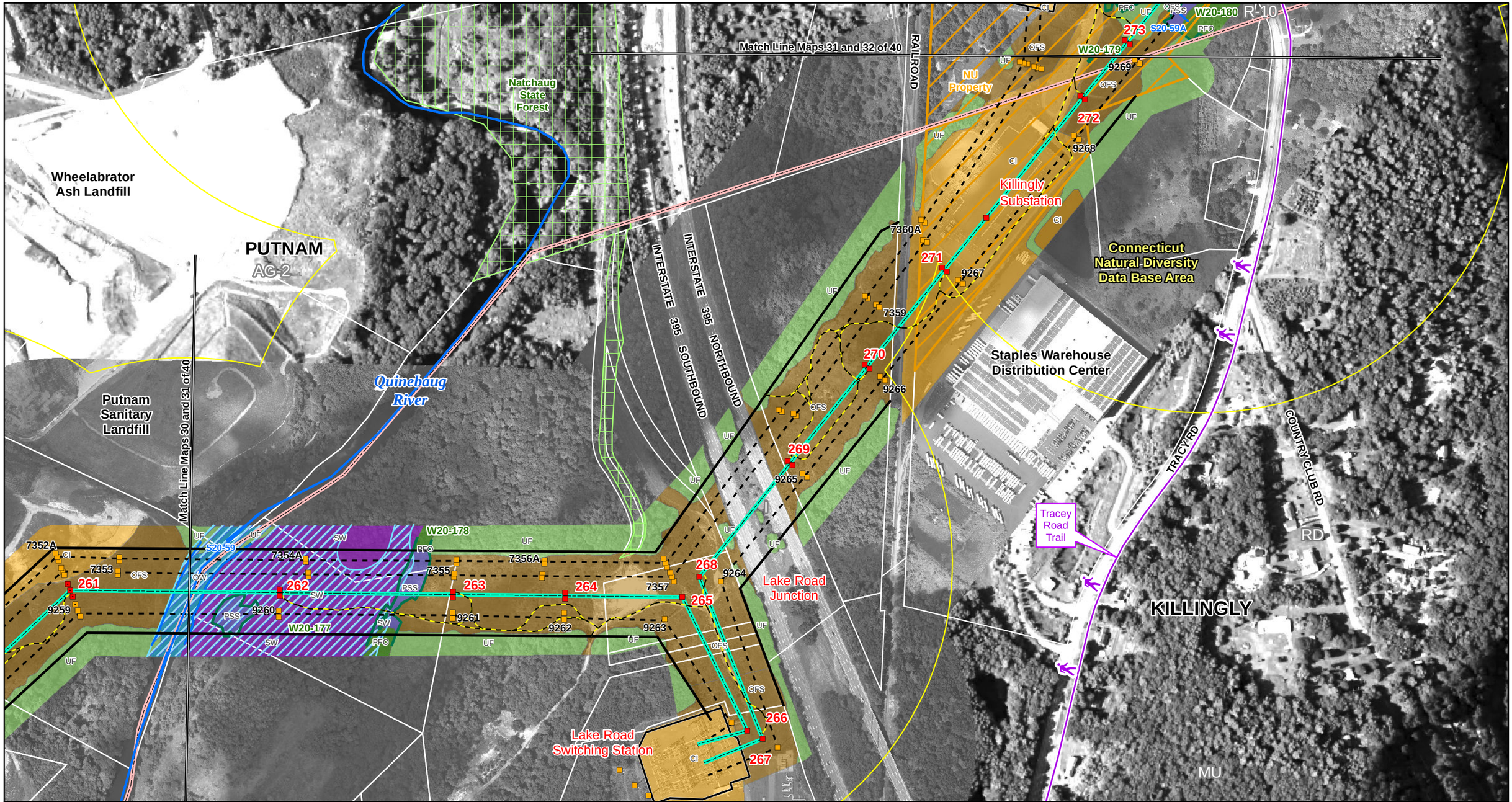
Existing Right-of-Way Width
- 250 to 385 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

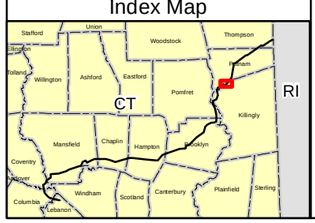
Existing Managed Right-of-Way Width
- 250 to 400 feet

Additional Managed Right-of-Way Width Required
- 0 feet

Road Crossings/Major Utility Crossings
- U.S. Interstate 395 between structures 9264 and 9265
- Providence and Worcester Railroad between 9266 and 9267



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 31 of 40

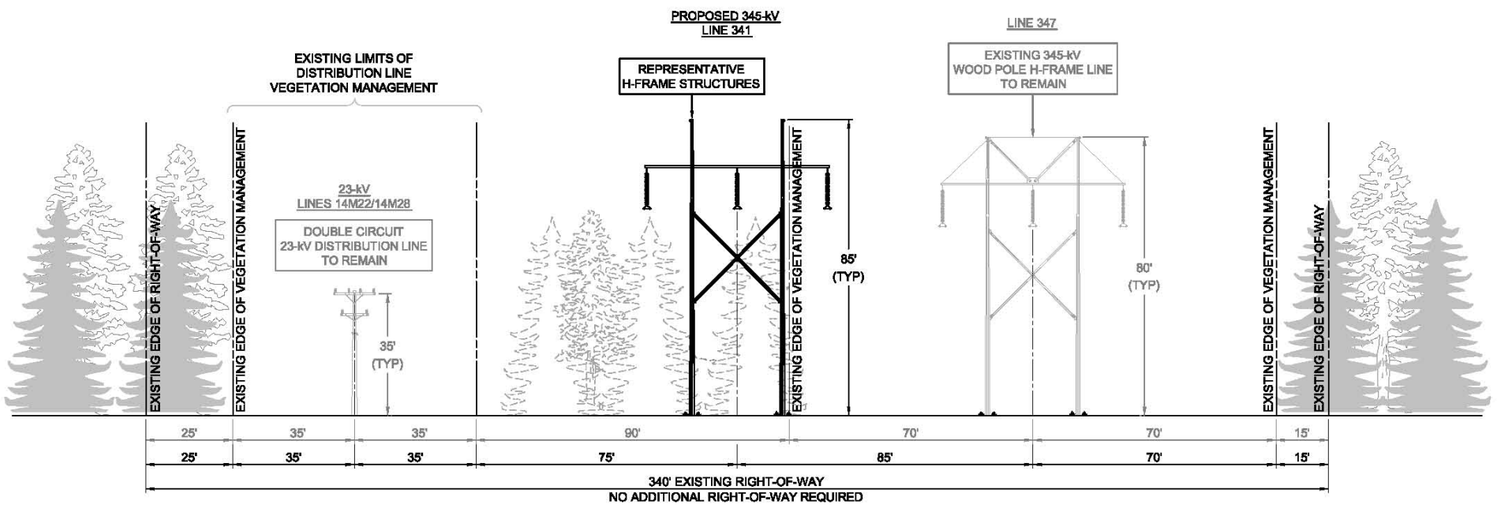
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 32 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9270 to 9275
Killingly Substation to Highland Drive
Towns of Killingly and Putnam, CT



AREA DESCRIPTION

Existing Land Use
- Commercial/Industrial (Tracy Substation)
- Residential
- CT Protected/Open Space (Natchaug State Forest managed by the CT DEEP); Tracey Road Trail; Town open space in Putnam and Killingly

Zoning
- Town of Killingly
  - Current:
    - Residential (RD)
    - Industrial (I)
- Town of Putnam
  - Current:
    - Agriculture (AG-2)
    - Residence 10 Zone (R-10)
    - Industrial (I)

Natural Systems
- Quinebaug River and its associated tributaries
- State/Federal jurisdictional wetlands
- Wheatons Pond
- Natural Diversity Data Base Areas
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, forest, agricultural, and commercial/industrial

RIGHT-OF-WAY DESCRIPTION

Land Use
- Commercial/Industrial (Tracy Substation) south of Park Road
- Upland and/or wetland forest adjacent to structures 9270 to 9275
- Tracey Road Trail between structures 9269 and 9270

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-179, W20-180, W20-181, W20-181A, W20-181B, W20-182, W20-182A, W20-183
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream Nos.: S20-59A, S20-59B, S20-59C

Potential Access
- Structures 9270 to 9275 can be accessed from Park Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Moderate slopes

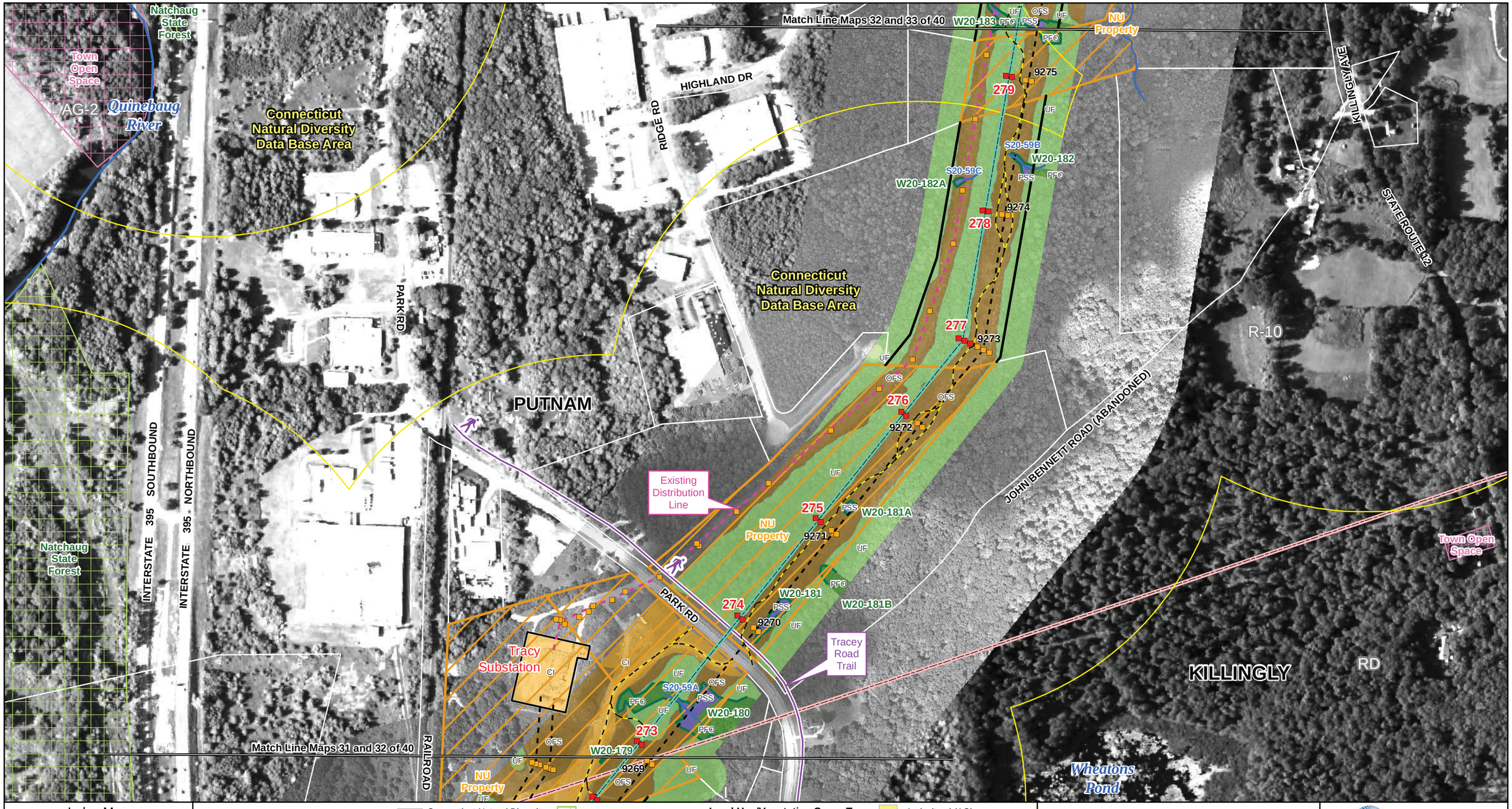
Existing Right-of-Way Width
- 340 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 210 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Park Road (Tracy Road) between structures 9269 and 9270



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 32 of 40

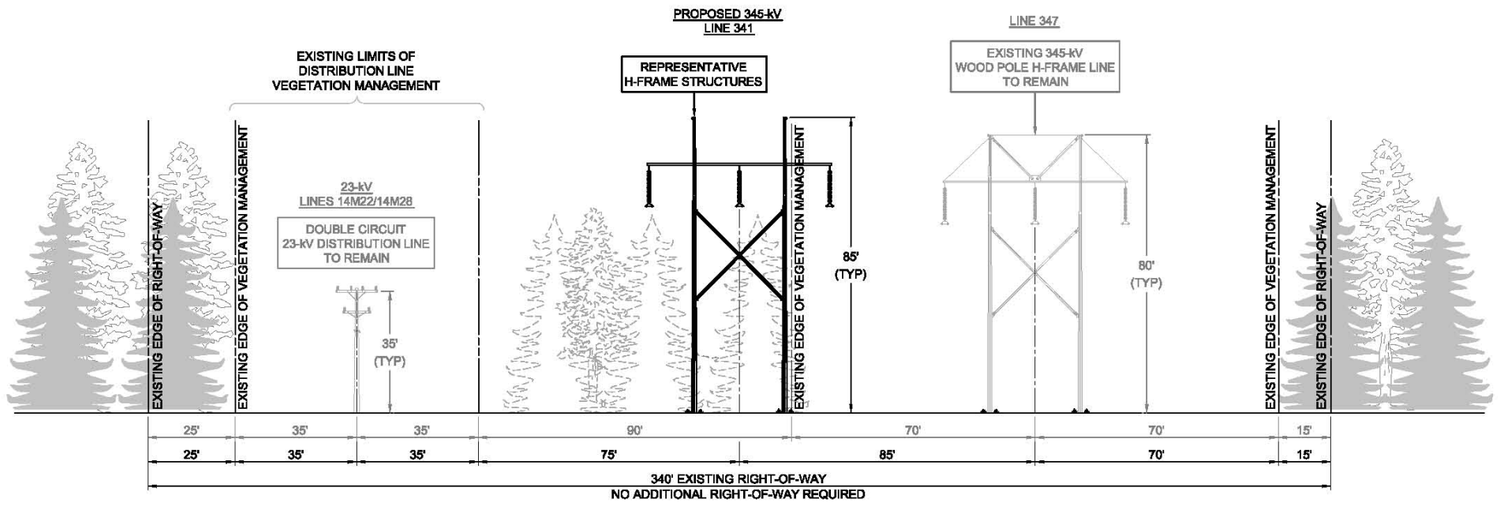
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 33 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9276 to 9281
Highland Drive to North of State Route 12/Killingly Avenue
Town of Putnam, CT



AREA DESCRIPTION

Existing Land Use
- Commercial/Industrial
- Residential
- Agricultural
- Town Greenbelt Protection Area
- CT protected open space (Quaddick State Forest, managed by the CT DEEP)

Zoning
- Current:
  - Residence 10 Zone (R-10)
  - Industrial (I)

Natural Systems
- Culver Brook and its associated tributaries
- LaBonte Pond
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Natural Diversity Data Base Areas
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, commercial/industrial, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structure 9278
- Agricultural adjacent to structures 9278 to 9281
- Upland and/or wetland forest adjacent to structures 9276 to 9281

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-183, W20-184
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-60, S20-60A, S20-60B, S20-60C (Culver Brook and tributaries)

Potential Access
- Structures 9276 to 9277 can be accessed from Park Road (see Mapsheet 32 of 40)
- Structures 9278 to 9279 can be accessed from State Route 12/Killingly Avenue
- Structures 9280 to 9281 can be accessed from Heritage Road (see Mapsheet 34 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural

Terrain
- Moderate slopes to broad flood plain

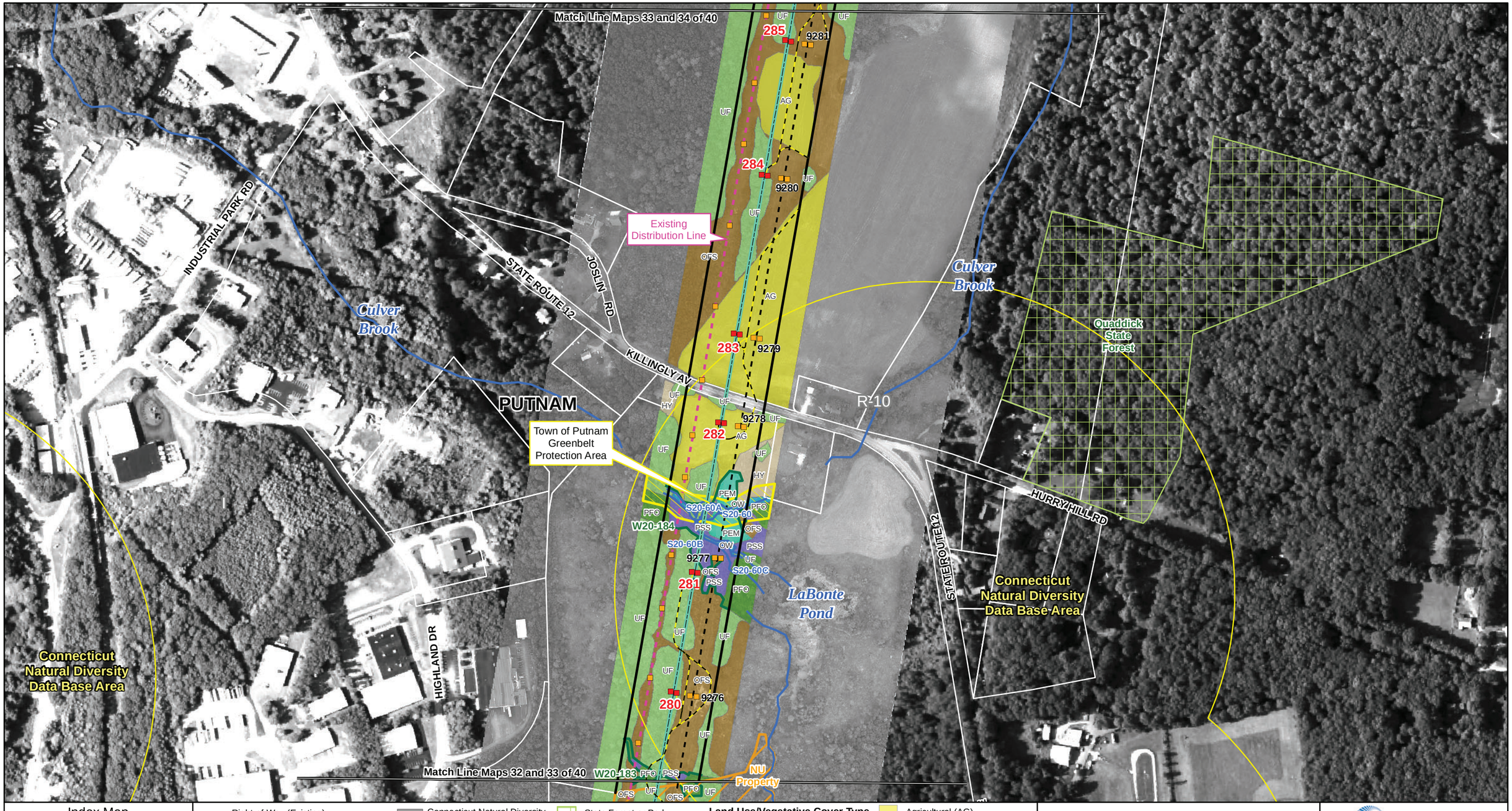
Existing Right-of-Way Width
- 340 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 210 to 340 feet

Additional Managed Right-of-Way Width Required
- 0 to 90 feet

Road Crossings/Major Utility Crossings
- State Route 12/Killingly Avenue between structures 9278 and 9279



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)

- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District

- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 33 of 40

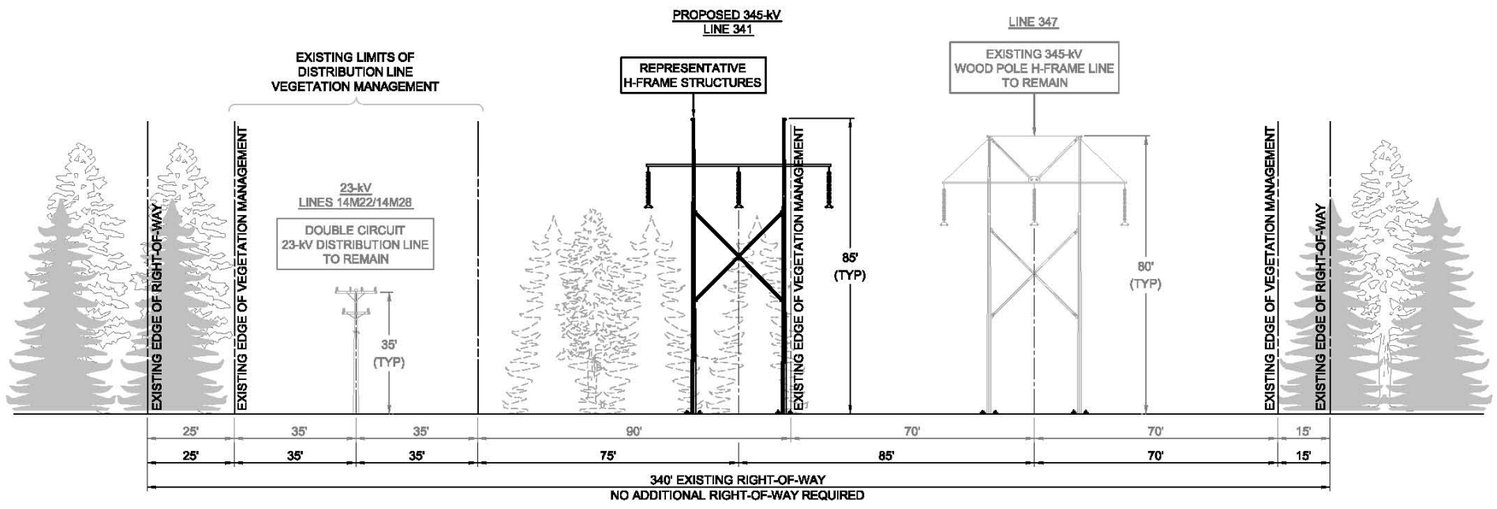
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 34 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9282 to 9286
North of State Route 12/Killingly Avenue to Tourtellotte Road
Town of Putnam, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential

Zoning
- Current:
  - Residence 10 Zone (R-10)

Natural Systems
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Kings Pond
- Culver Brook and its associated tributaries
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, forest, and agricultural

RIGHT-OF-WAY DESCRIPTION

Land Use
- Agricultural adjacent to structures 9286
- Upland and/or wetland forest adjacent to structures 9282 to 9285, and 9286

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-185, W20-186, W20-187
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)

Potential Access
- Structures 9282 to 9286 can be accessed from Heritage Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain
- Broad, gentle slopes

Existing Right-of-Way Width
- 340 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 210 to 340 feet

Additional Managed Right-of-Way Width Required
- 0 to 90 feet

Road Crossings/Major Utility Crossings
- Heritage Road between structures 9285 and 9286
- Pipeline/Utility Corridor between structures 9285 and 9286

Match Line Maps 34 and 35 of 40

Match Line Maps 33 and 34 of 40

PUTNAM

R-10

TOURTELLOTTE RD

HERITAGE RD

KILLINGLY AVE

STATE ROUTE 12

Pipeline/Utility Corridor

Pipeline/Utility Corridor

Culver Brook

Culver Brook

Kings Pond

Cemetery (South Main Street)

Existing Distribution Line

291 9287 9288 W20-188 S20-60D W20-187 290 9286 W20-186 289 9285 288 9284 W20-185 287 9283 286 9282

HY UF PFO AG OFS PSS PEM

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 34 of 40

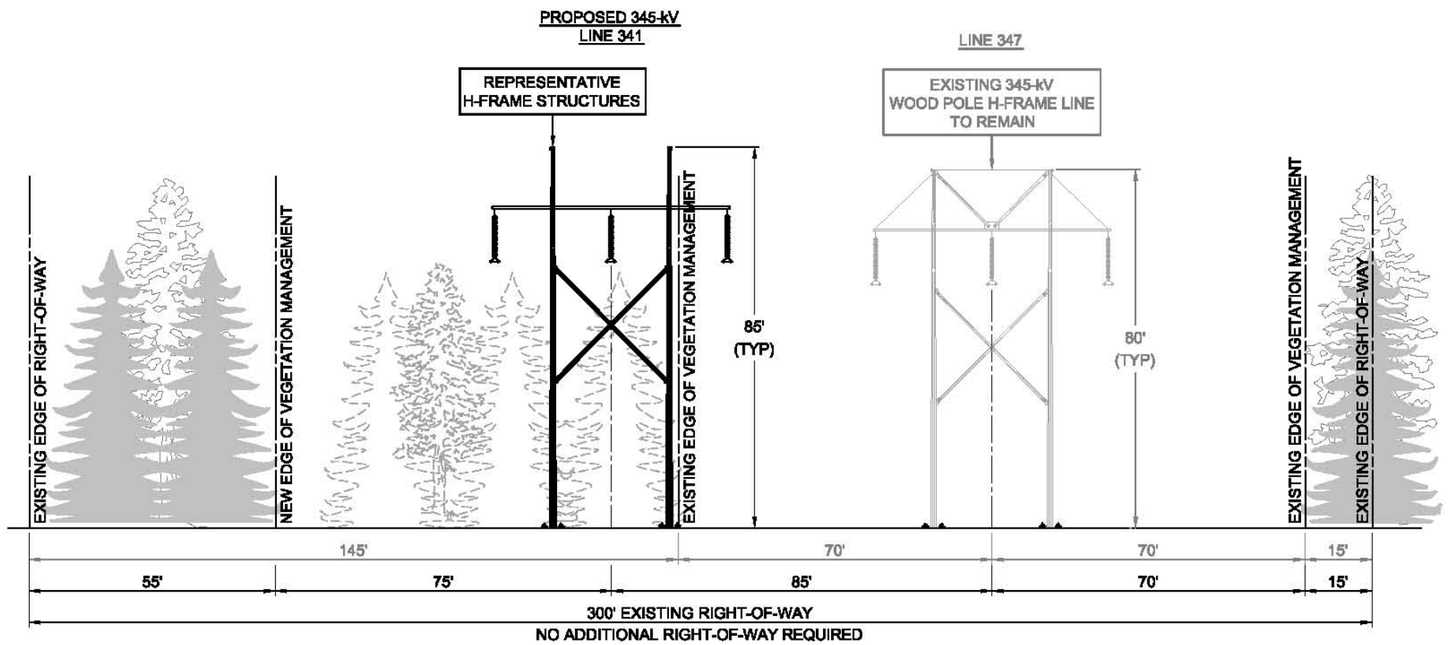
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 35 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9287 to 9295
Tourtellotte Road to Northeast of State Route 21 (Liberty Highway)
Town of Putnam, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- Town Greenbelt Protection Areas
- Town open space

Zoning
- Current:
  - Residence 10 Zone (R-10)
  - Agriculture (AG-2)

Natural Systems
- State/Federal jurisdictional wetlands
- Little Dam Tavern Brook and its associated tributaries
- Culver Brook and its associated tributaries
- Natural Diversity Data Base Area
- Mixed hardwood forest varying in size and age
- 100-year flood zone associated with Culver Brook and Little Dam Tavern Brook

Visual Character
- Residential, forest, and agricultural

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9287 to 9288, 9291 and 9291
- Agricultural adjacent to and/or between structures 9288 and 9289
- Commercial/Industrial adjacent to structure 9296
- Upland and/or wetland forest adjacent to structures 9287, 9289 to 9291, and 9292 to 9295

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-187, W20-188, W20-189, W20-190, W20-191
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream No.: S20-60D, S20-60E (Culver Brook), S20-61 (Little Dam Tavern Brook)

Potential Access
- Structures 9287 to 9290 can be accessed from Tourtellotte Road
- Structure 9291 can be accessed from State Route 21/Liberty Highway
- Structures 9292 to 9293 can be accessed from either State Route 21/Liberty Highway or Aldrich Road
- Structures 9294 to 9295 can be accessed from Fox Road (see Mapsheet 36 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain
- Broad, gentle slopes to moderate

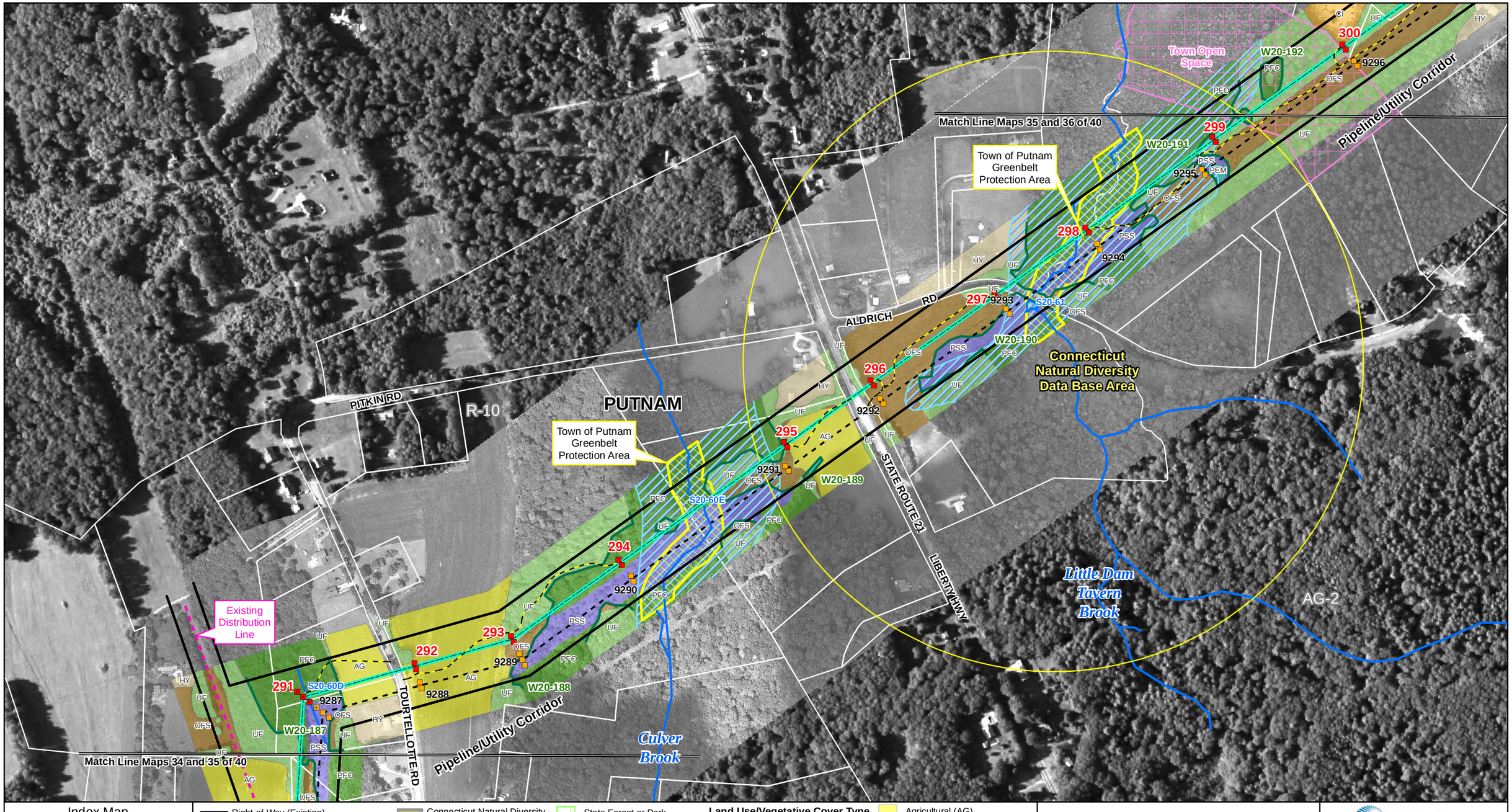
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Tourtellotte Road between structures 9287 and 9288
- State Route 21/Liberty Highway between structures 9291 and 9292
- Aldrich Road between structures 9293 and 9294



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)

- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District

- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 35 of 40

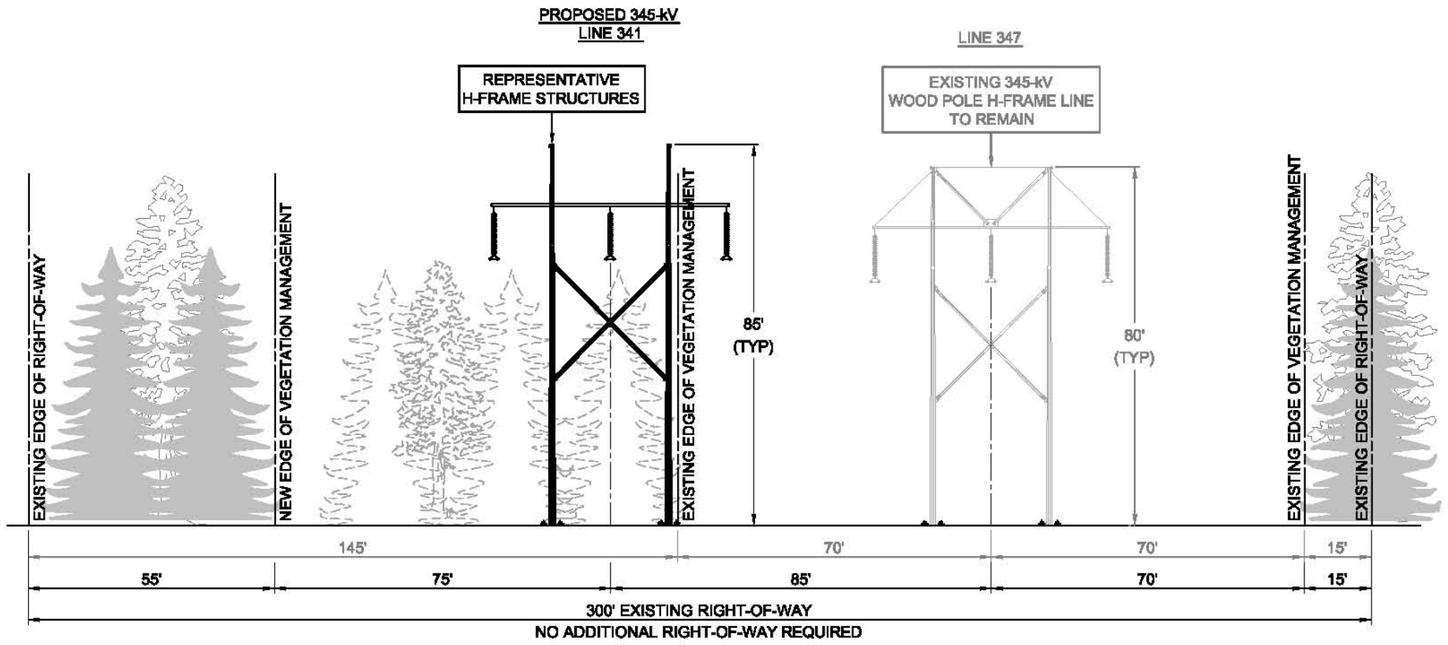
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 36 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9296 to 9303
Northeast of State Route 21 (Liberty Highway) to U.S. Route 44/Providence Pike
Town of Putnam, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Wyndham Land Trust (Chafee Preserve) privately managed); Town of Putnam open space; Town of Putnam Greenbelt Protection Area

Zoning
- Current:
  - Agriculture (AG-2)

Natural Systems
- State/Federal jurisdictional wetlands
- Lippitts Brook and its associated tributaries
- Open water (ponds)
- Natural Diversity Data Base Area
- Tavern Brook Pond No. 1
- Mixed hardwood forest varying in size and age
- 100-year flood zones – Lippitts and Little Dam Tavern Brooks

Visual Character
- Residential, agricultural, forest, and commercial/industrial

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9297 and 9298
- Commercial/Industrial adjacent to structures 9296 and 9297
- Upland and/or wetland forest adjacent to structures 9296 to 9303
- CT Protected/Open Space – Town open space between structures 9295 and 9296

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-191, W20-192, W20-193, W20-194, W20-195
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream No.: S20-61A (tributary of Lippitts Brook)

Potential Access
- Structures 9296 to 9298 can be accessed from Fox Road
- Structures 9299 to 9302 can be accessed from either Fox Road or U.S. Route 44/ Providence Pike (see Mapsheet 37 of 40)
- Structure 9303 can be accessed from U.S. Route 44/ Providence Pike (see Mapsheet 37 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Broad, gentle slopes to moderate

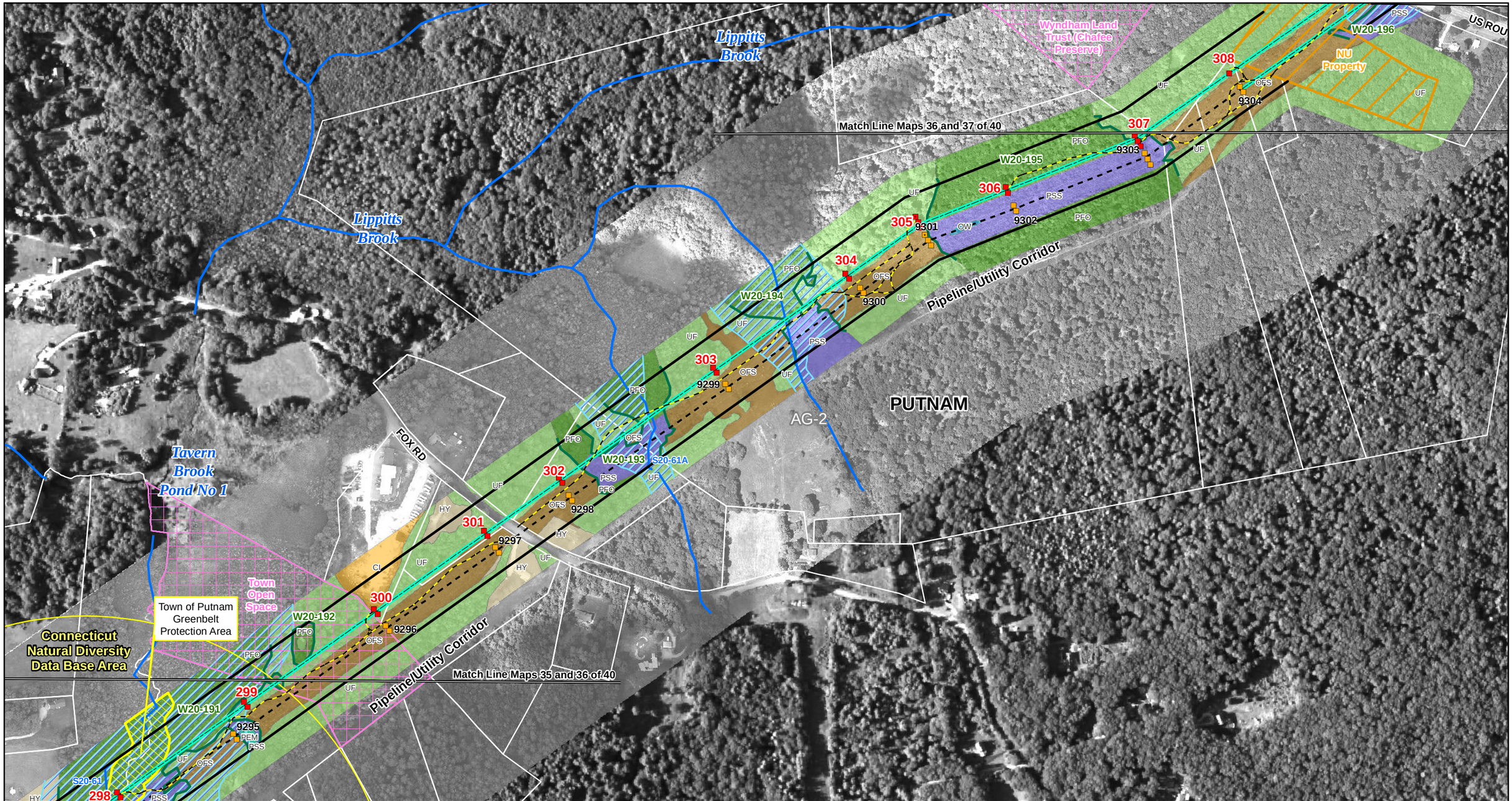
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

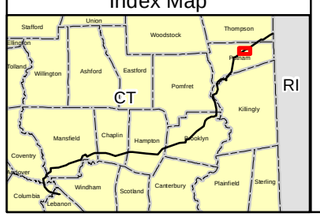
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Fox Road between structures 9297 and 9298



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 36 of 40

Connecticut Light & Power
A Northeast Utilities Company

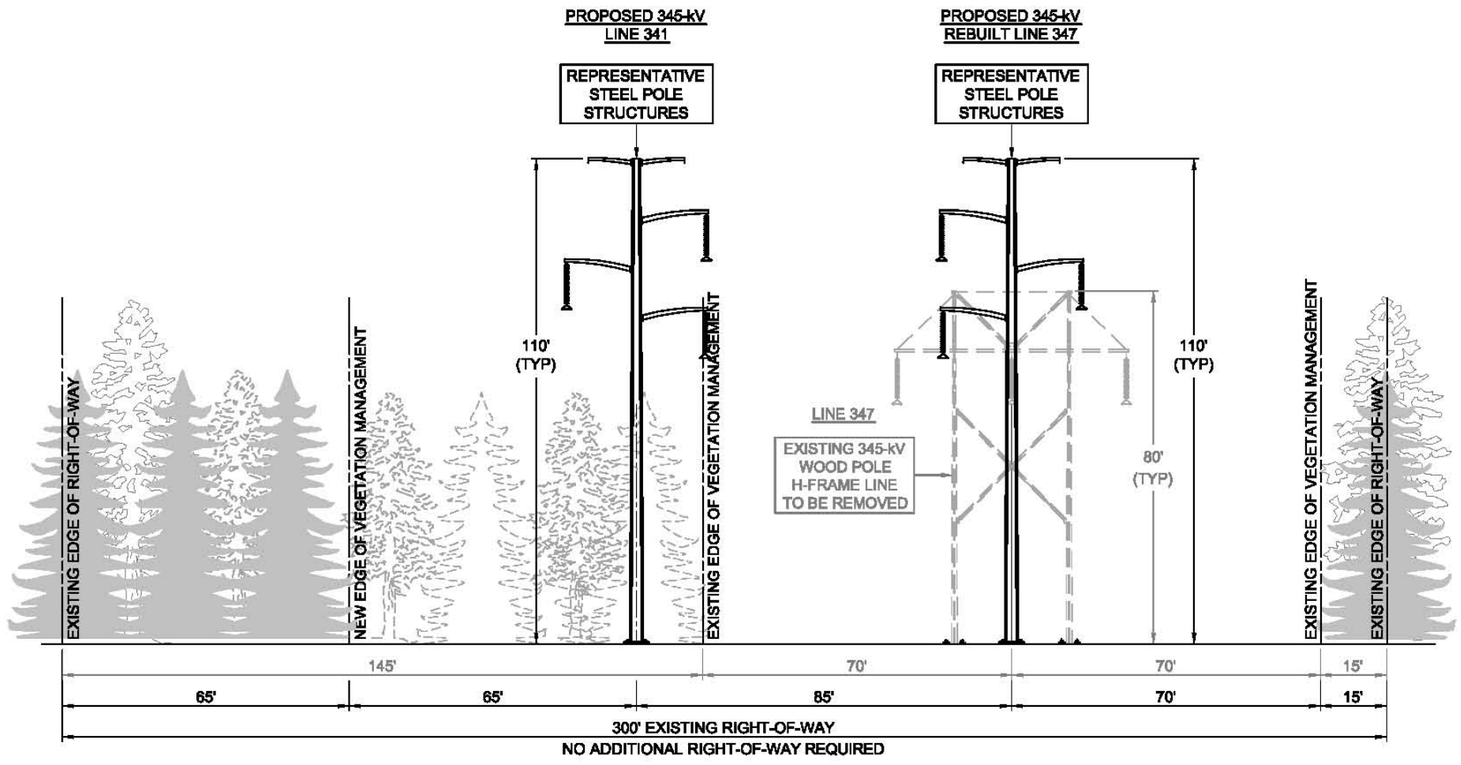
AECOM

Date: December 2011

MAPSHEET 37 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9304 to 9311
U.S. Route 44/Providence Pike to Munyan Road
Town of Putnam, CT

Note: XS-12 BMP (depicted) illustrates the Proposed ROW Configuration from Structures 9305 through 9310. Refer to XS-12 on Mapsheets36 or 38 for Proposed Configuration at other structure locations.



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Wyndham Land Trust (Chafee Preserve) privately managed)
- Town Greenbelt Protection Areas

Zoning
- Current:
  - Agriculture (AG-2)

Natural Systems
- State/Federal jurisdictional wetlands
- Fivemile River and its associated tributaries
- Munson Brook and its associated tributaries
- Open water (ponds)
- Natural Diversity Data Base Area
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Munson Brook and Fivemile River

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9305 to 9310
- Upland and/or wetland forest adjacent to structures 9304 to 9311

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-195, W20-196, W20-197, W20-198
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS)
- Stream Nos.: S20-62, S20-63 (Munson Brook)

Potential Access
- Structures 9304 to 9306 can be accessed from U.S. Route 44/Providence Pike
- Structures 9307 to 9311 can be accessed from either U.S. Route 44/Providence Pike or Elvira Heights

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Flat floodplains to moderate slopes

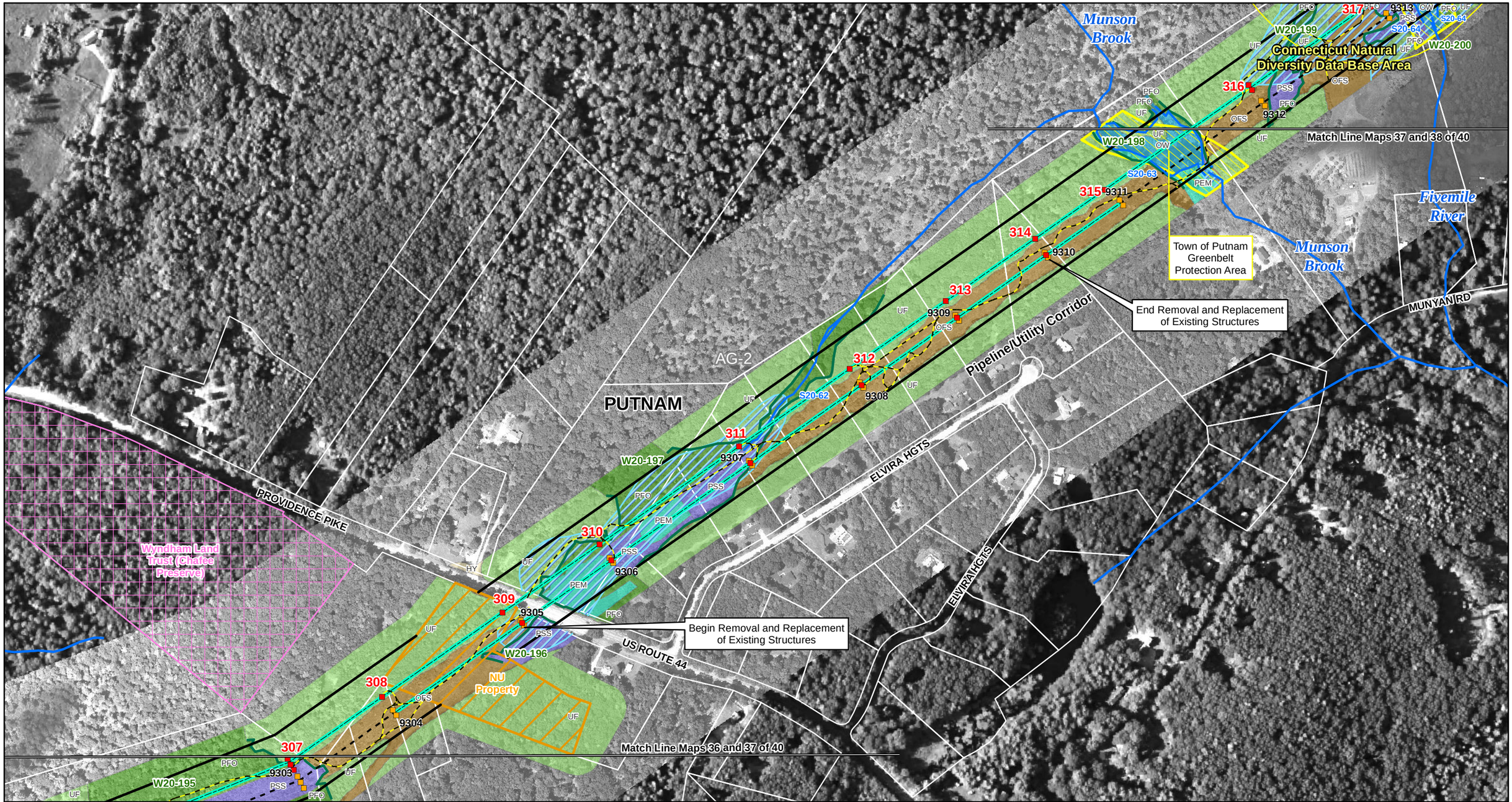
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

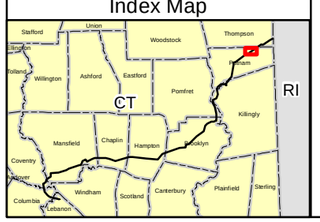
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 85 feet (six existing 345-kV line structures to be removed and replaced, along with six new 345-kV line structures)

Road Crossings/Major Utility Crossings
- U.S. Route 44/Providence Pike between structures 9305 and 9306



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 37 of 40

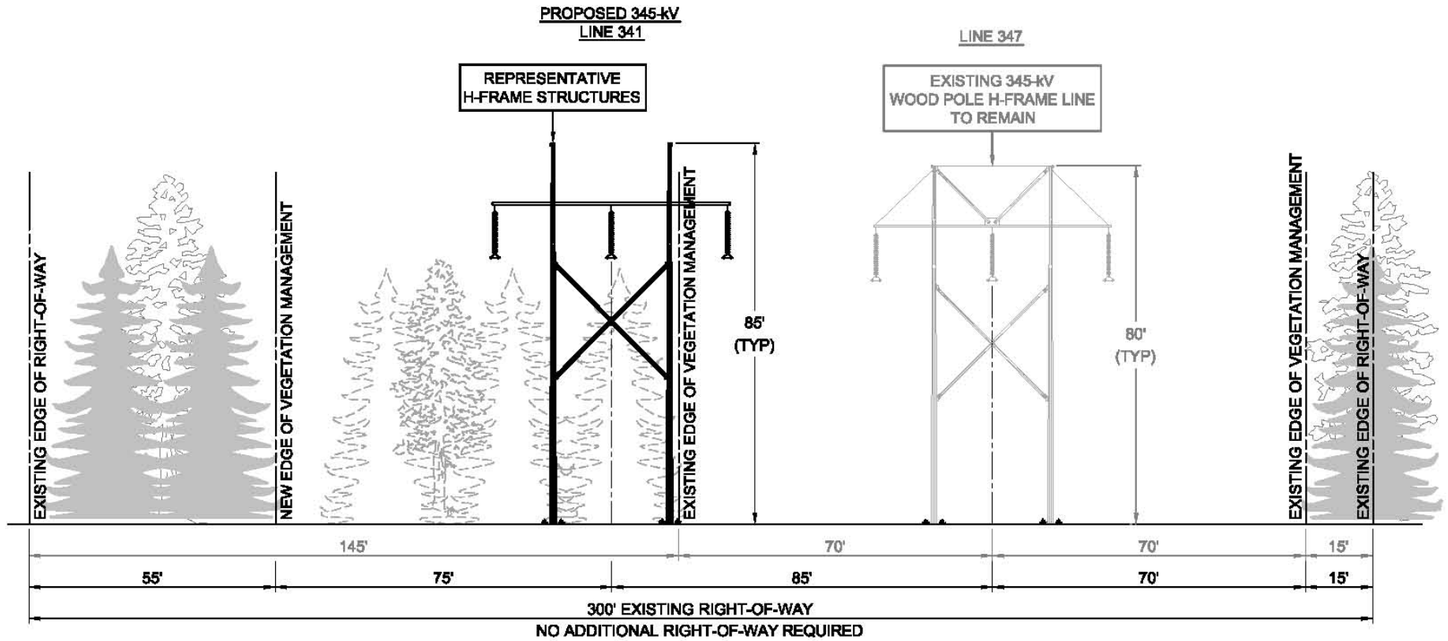
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 38 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9312 to 9320
Munyan Road to Elmwood Hill Road
Towns of Putnam and Thompson, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Commercial/Industrial
- Residential
- CT Protected/Open Space (Munyan Cemetery privately managed); Town of Putnam Greenbelt Protection Areas; The Nature Conservancy, Inc. and Wyndham Land Trust (Baker Preserve), privately managed

Zoning
- Town of Putnam
  - Current:
    - Agriculture (AG-2)
- Town of Thompson
  - Current:
    - Residence 40 Zone (R40)
    - Commercial (C)

Natural Systems
- State/Federal jurisdictional wetlands
- Fivemile River and its associated tributaries
- Teft Brook and its associated tributaries
- Munson Brook and its associated tributaries
- Lower Pond
- Natural Diversity Data Base Areas
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Fivemile River

Visual Character
- Commercial/Industrial, residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structure 9320
- Upland and/or wetland forest adjacent to structures 9312 to 9316, and 9318 to 9320
- CT Protected/Open Space – Wyndham Land Trust Baker Preserve near structures 9314 to 9317

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-198, W20-199, W20-200, W20-201, W20-202, W20-203, W20-204
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Emergent Wetland (PEM), Open Water (OW)
- Stream Nos.: S20-63 (Munson Brook), S20-64 (Fivemile River), S20-65 (Teft Brook)

Potential Access
- Structures 9312 to 9313 can be accessed from Munyan Road (see Mapsheet 37 of 40)
- Structures 9314 to 9315 can be accessed from either Munyan Road or Quaddick Town Farm Road
- Structures 9316 to 9320 can be accessed from Quaddick Town Farm Road

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Broad floodplains with areas of increased elevation to moderate slopes

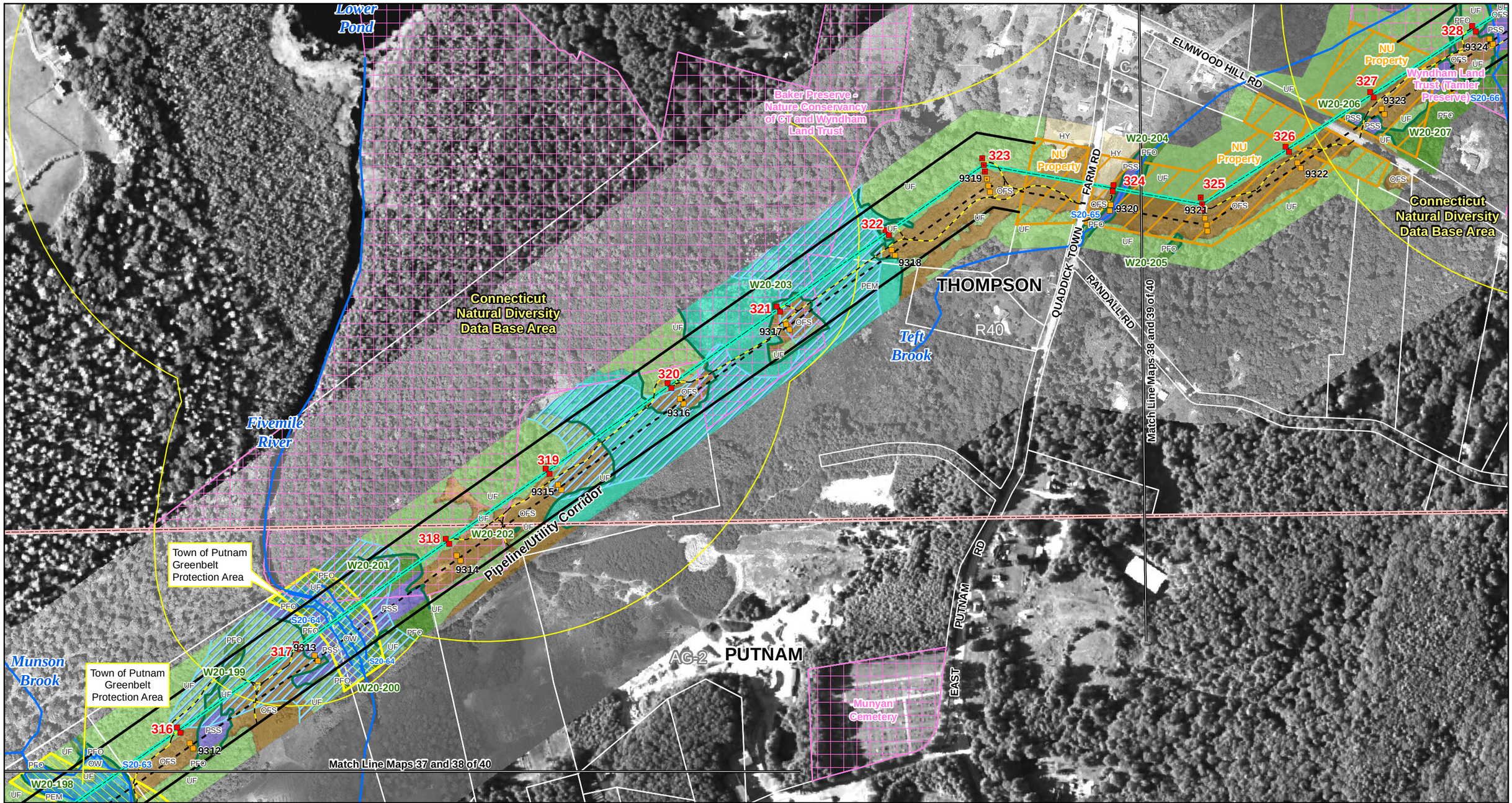
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

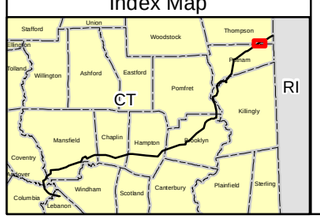
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Quaddick Town Farm Road between structures 9319 and 9320
- Pipeline/Utility Corridor between structures 9319 and 9320



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 38 of 40

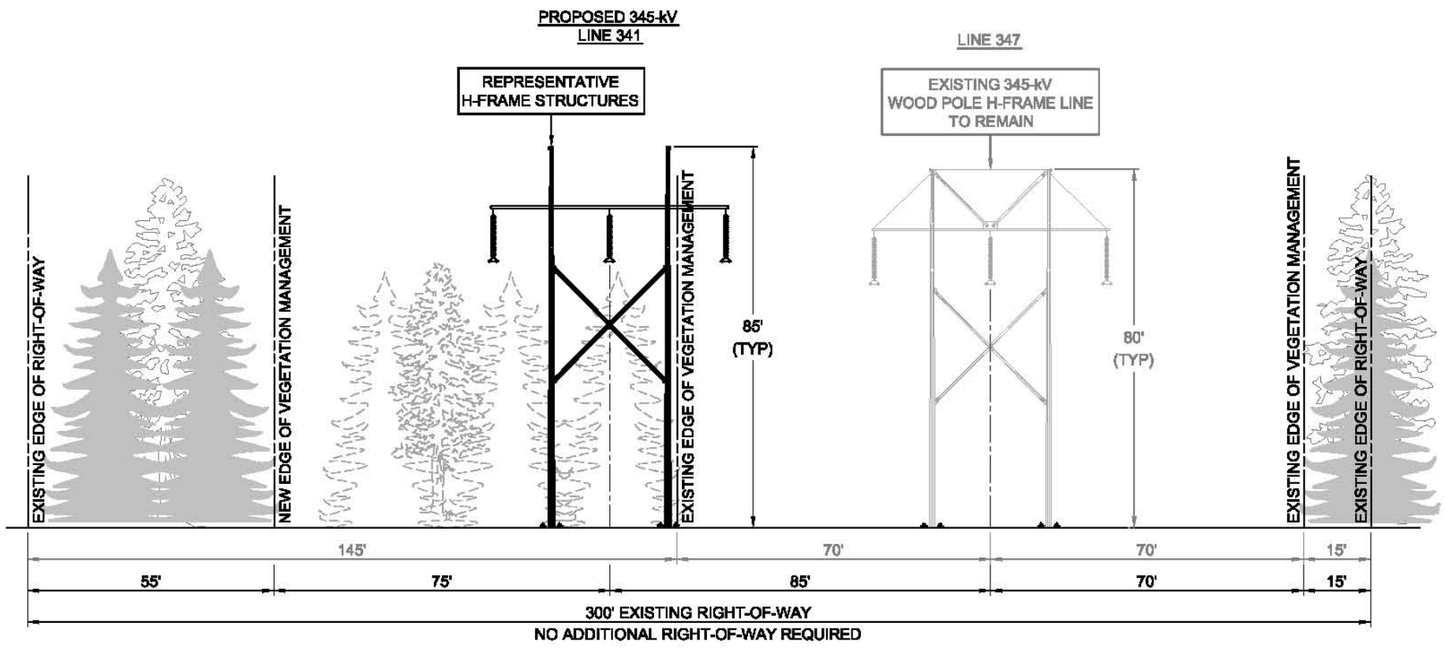
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 39 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9321 to 9328
Elmwood Hill Road to Border Trail
Town of Thompson, CT



AREA DESCRIPTION

Existing Land Use
- Rural Residential
- CT Protected/Open Space (Quaddick Reservoir managed by the CT DEEP); Wyndham Land Trust (Tamler Preserve, Tamler Preserve Trail)

Zoning
- Current:
  - Residence 40 Zone (R40)
  - Residence 80 Zone (R80)
  - Commercial (C)

Natural Systems
- State/Federal jurisdictional wetlands
- Teft Brook and its associated tributaries
- Open water (ponds)
- Quaddick Reservoir
- Mixed hardwood forest varying in size and age
- Natural Diversity Data Base Areas

Visual Character
- Forest, residential, and agricultural

RIGHT-OF-WAY DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to structures 9319 to 9328
- CT Protected/Open Space – Wyndham Land Trust Tamler Preserve

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-204, W20-205, W20-206, W20-207, W20-208, W20-209, W20-210
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream Nos.: S20-65 and S20-66 (Teft Brook), S20-67

Potential Access
- Structures 9321 to 9328 can be accessed from Elmwood Hill Road.

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Moderate slopes

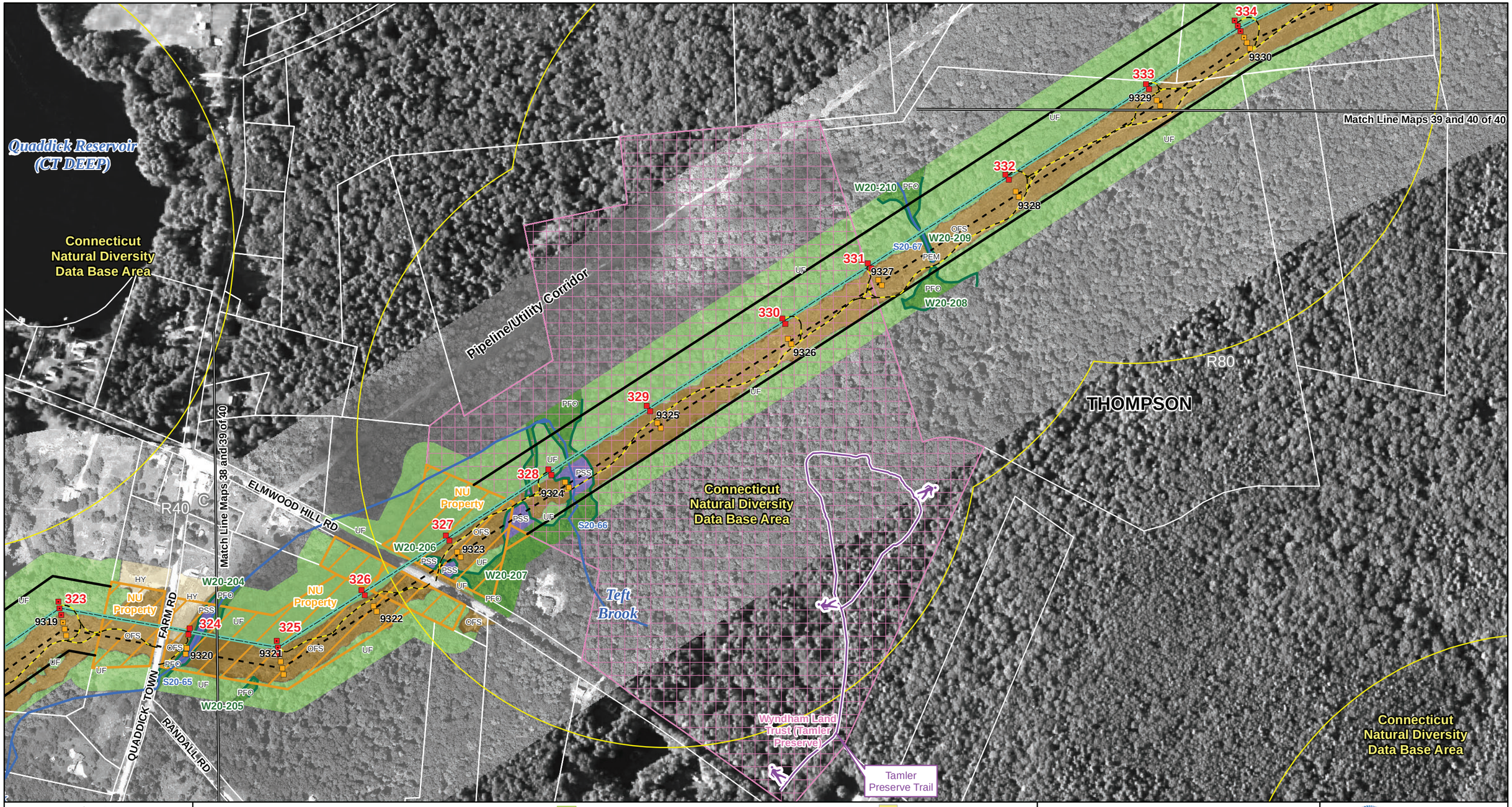
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- Elmwood Hill Road between structures 9322 and 9323



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 39 of 40

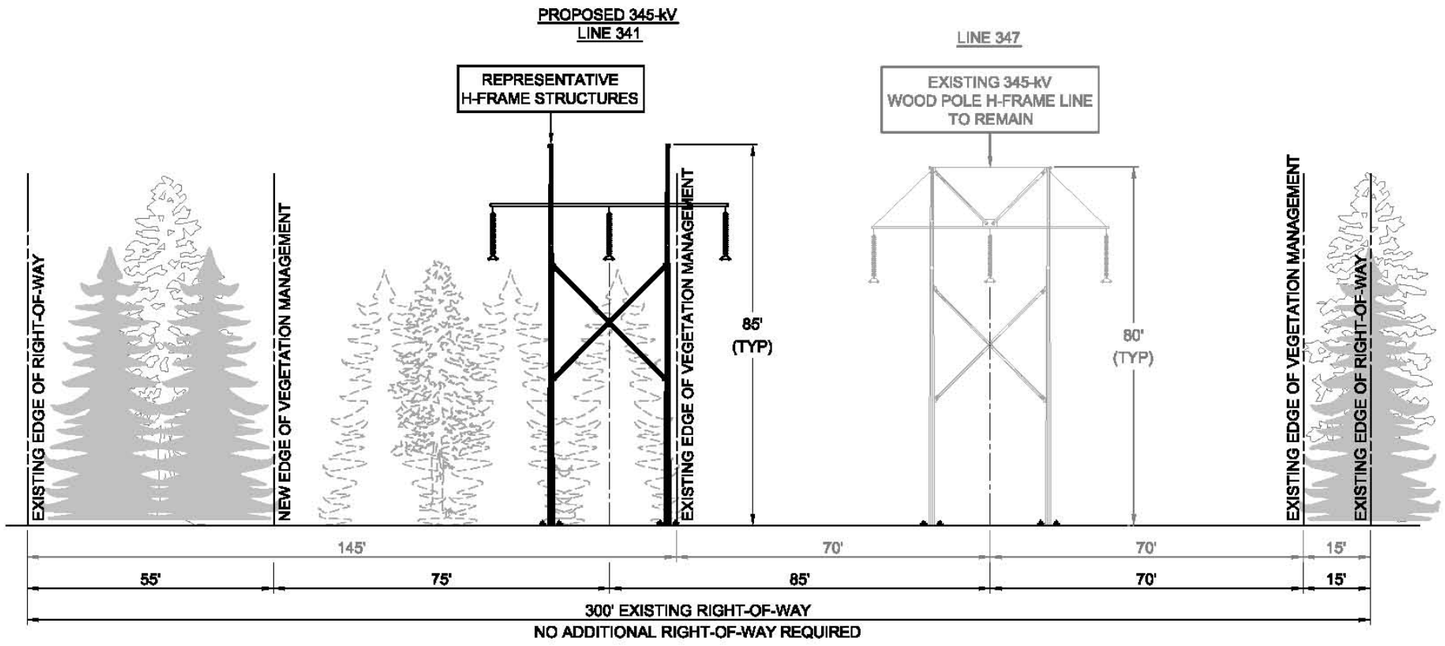
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 40 of 40:

Interstate Reliability Project
Proposed Route
Existing Structure Locations 9329 to 9333
Border Trail to Connecticut / Rhode Island Border
Town of Thompson, CT



AREA DESCRIPTION

Existing Land Use
- Undeveloped forest

Zoning
- Current:
  - Residence 80 Zone (R80)

Natural Systems
- Mixed hardwood forest varying in size and age
- State/Federal jurisdictional wetlands
- Blackwood Brook and its associated tributaries
- Natural Diversity Data Base Area

Visual Character
- Forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to structures 9329 to 9333

Wetlands, Watercourses and Waterbodies
- Wetland No.: W20-211
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Palustrine Scrub-Shrub Wetland (PSS)
- Stream No.: S20-68

Potential Access
- Structures 9329 to 9333 can be accessed from Elmwood Hill Road (see Mapsheet 39 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Moderate slopes to steep

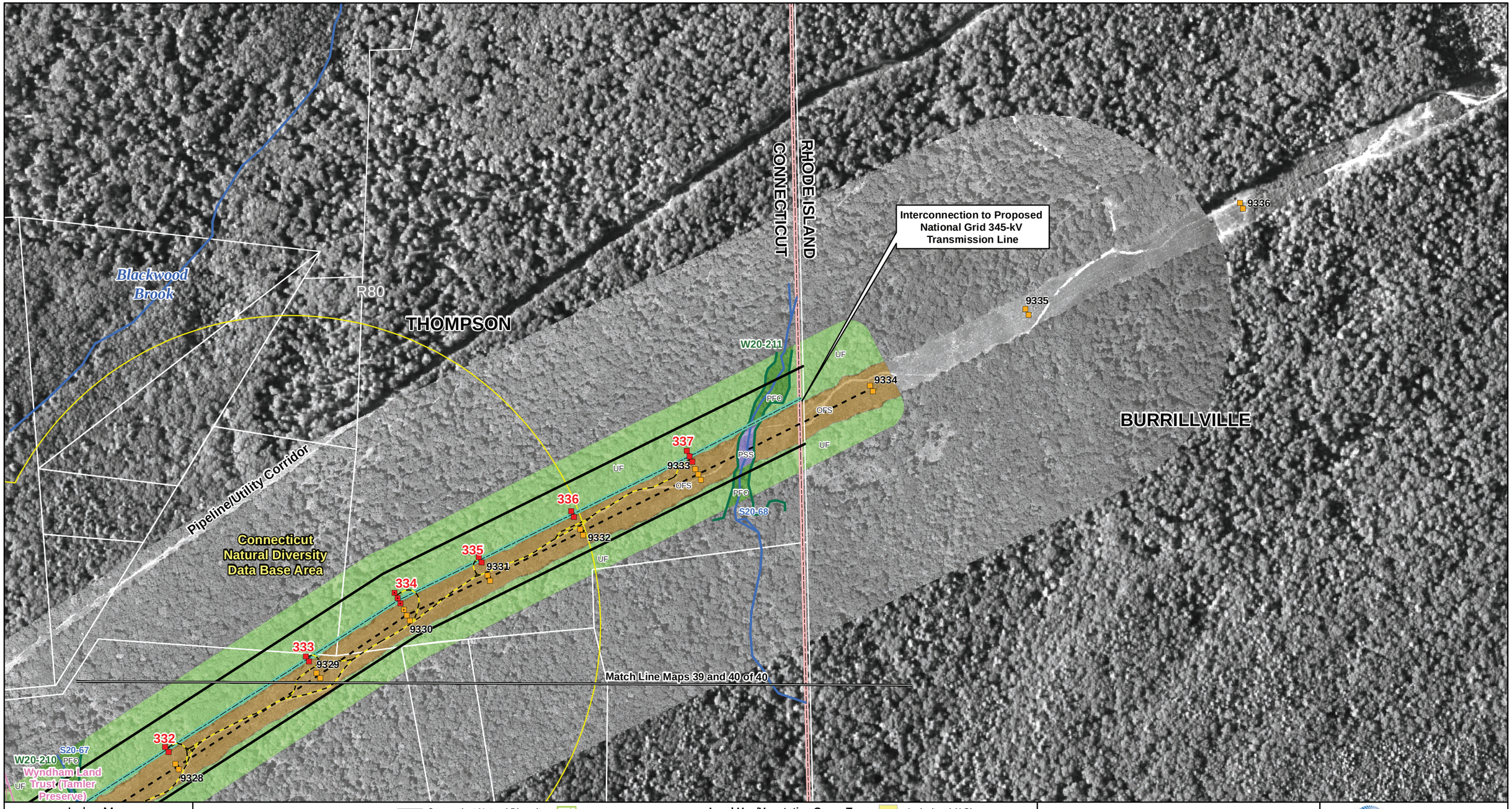
Existing Right-of-Way Width
- 300 feet

Proposed Expansion of Right-of-Way Width
- 0 feet

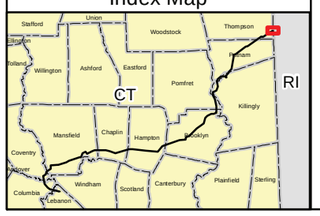
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 90 feet

Road Crossings/Major Utility Crossings
- None



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Proposed Route

Mapsheet 40 of 40

Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

EX. 2A: Mansfield Hollow Configuration Options Aerial Photographs – 400 Scale

No ROW Expansion Option

Minimal ROW Expansion Option

INDEX
EXHIBIT 2A
INTERSTATE RELIABILITY PROJECT: MANSFIELD HOLLOW CONFIGURATION OPTIONS

No ROW Expansion Configuration Option

Mapsheet	Town(s)	Existing Structure Numbers
1 of 3 NRE	Mansfield	9077 to 9086
2 of 3 NRE	Mansfield, Chaplin	9087 to 9096
3 of 3 NRE	Chaplin	9097 to 9107

Minimal ROW Expansion Configuration Option

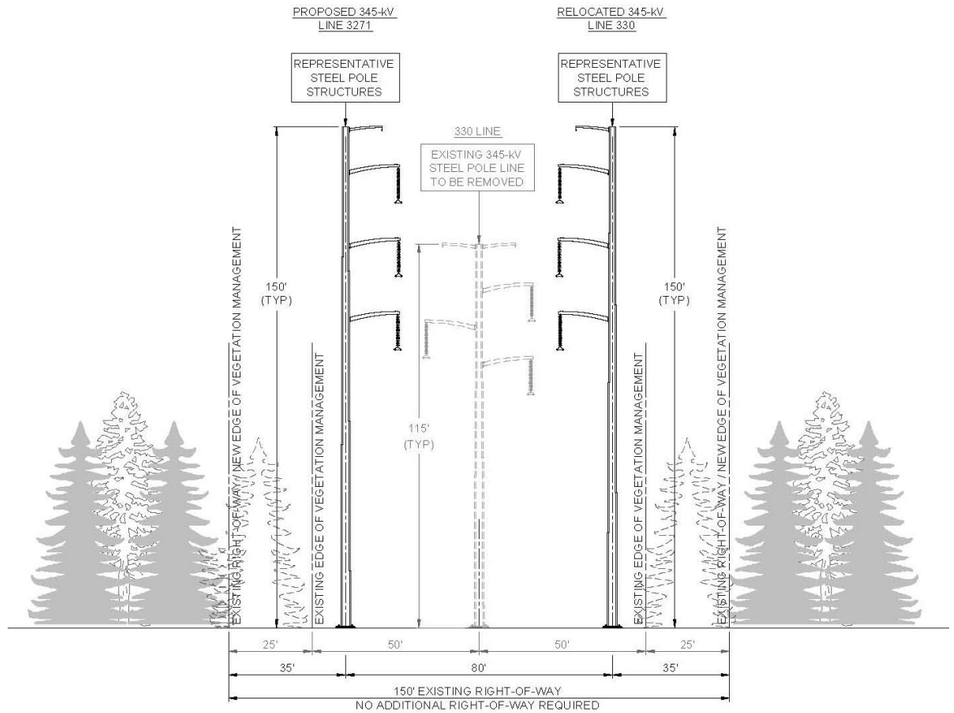
Mapsheet	Town(s)	Existing Structure Numbers
1 of 3 MRE	Mansfield	9077 to 9086
2 of 3 MRE	Mansfield, Chaplin	9087 to 9096
3 of 3 MRE	Chaplin	9097 to 9107

No ROW Expansion Option

MAPSHEET 1 of 3 NRE:

Interstate Reliability Project
No ROW Expansion Configuration Option: Mansfield Hollow Area Segment 1
Existing Structure Locations 9077 to 9086
Bassetts Bridge Road to Nipmuck Trail (East Branch)
Town of Mansfield, CT

Note: Cross-section shown (XS-3-MH-NRE) applies to USACE property only. See cross-section (XS-2) in Exhibit 2 on Mapsheet 8of 40 for transmission line and ROW configuration on non-USACE lands.



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- Commercial/Industrial
- CT Protected/Open Space (Joshua's Tract Conservation and Historic Land Trust (The Pond Lot and Wildlife Area) privately managed, Town Open Space (Storrs & Bassetts Bridge Roads) managed by the Town of Mansfield, Mansfield Hollow State Park and Mansfield Hollow Lake managed by the CT DEEP and the U.S. Army Corps of Engineers (USACE), and Mansfield Hollow Wildlife Management Area (WMA) managed by the CT DEEP)
- Mansfield Hollow Levee (recreational trail); Red Trail (hiking trail in State Park); CFPA's Nipmuck Trail (East Branch)

Zoning
- Current:
  - Rural Agriculture Residence 90 Zone (RAR-90)
  - Flood Hazard Zone (FH)

Natural Systems
- Open water (ponds)
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Mansfield Hollow Lake
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Mansfield Hollow Lake

Visual Character
- Residential, agricultural, commercial/industrial, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Agricultural adjacent to and between structures 9076 to 9078
- Residential near structures 9080, and 9081
- Mansfield Hollow State Park (USACE-owned property) adjacent to and northwest of structure 9081 to east side of Mansfield Hollow Lake
- Mansfield Hollow WMA (USACE-owned property) near Levee Trail and along east side of lake to east of structure 9086
- Upland and/or wetland forest adjacent to structures 9077 to 9080, and 9082 to 9086
- Flood Control Levee Trail between structures 9080 and 9081
- Mansfield Hollow Park Trail (Red Trail) between structures 9082 and 9085
- Nipmuck Trail, East Branch between structures 9086 and 9087

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-63, W20-64, W20-65, W20-66
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Waterbody: Mansfield Hollow Lake
- Stream No.: S20-19

Potential Access
- Structures 9077 to 9085 can be accessed from Bassetts Bridge Road; structure 9086 can be accessed from Bassetts Bridge Road on east side of lake.

Right-of-Way Vegetation
- Agricultural, house/yard, open field, shrub-land, upland forest, forested and scrub-shrub wetland (W20-66 adjacent to Mansfield Hollow Lake)

Terrain
- Broad, rolling hills

Existing Right-of-Way Width
- 150 (USACE property) to 300 feet

Additional Right-of-Way Width Required
- 0 feet

Existing Managed Right-of-Way Width
- 100 feet (USACE property) to 140 feet

Additional Managed Right-of-Way Width Required
- 50 to 90 feet (50 feet within existing easement on USACE property)

Road Crossings/Major Utility Crossings
- Bassetts Bridge Road between structures 9076 and 9077, and 9081 and 9082

Joshua's Tract Conservation and Historic Land Trust, Inc. (Wildlife Area)

Mansfield Hollow Wildlife Management Area

Nipmuck Trail, East Branch (Blue Dot Trail)

Flood Control Levee Trail

Connecticut Natural Diversity Data Base Area

Mansfield Hollow Park Trail / Red Trail

Mansfield Hollow State Park

Mansfield Hollow Lake

Existing 150-foot-Wide ROW, No ROW Expansion. All Existing Structures to be Removed and Rebuilt.

MANSFIELD

RAR-90

W20-64

W20-63

W20-65

W20-66

S20-19

HAWTHORNE LN

BASSETTS BRIDGE RD

MANSFIELD HOLLOW RD EXT.

Town Open Space (Storrs and Bassetts Bridge Roads)

NU Property

Green Dragon Day Care

Mansfield Hollow Dam Historic District

77 9076
78 9077
79 9078
80 9079
81
82 9081
83 9082
84 9083
85 9084
86 9085
87 9086
88

Match Line Maps 1 and 2 of 3 NRE

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Mansfield Hollow No ROW Expansion Option

Mapsheet 1 of 3 NRE

Connecticut Light & Power
A Northeast Utilities Company

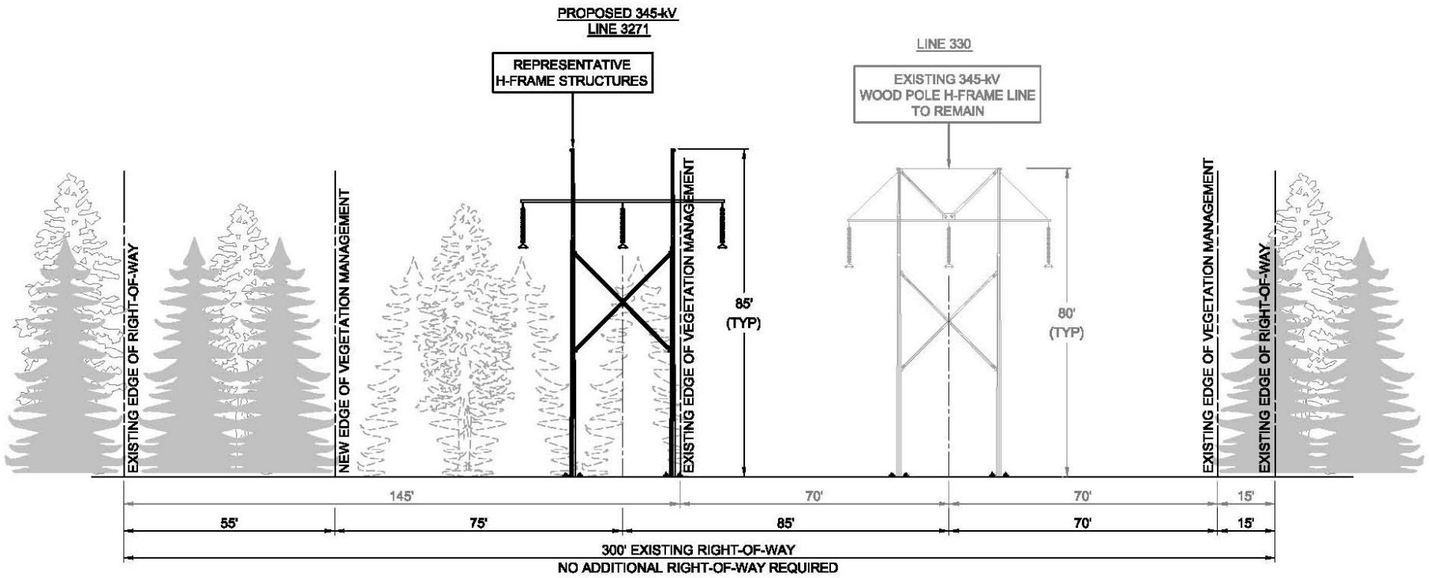
AECOM

Date: December 2011

MAPSHEET 2 of 3 NRE:

Interstate Reliability Project
No ROW Expansion Configuration Option: Mansfield Hollow Area Segments 1 and 2
Existing Structure Locations 9087 to 9096
Nipmuck Trail (East Branch) to East of Natchaug River
Towns of Mansfield and Chaplin, CT

Note: XS-4 (depicted) illustrates Proposed Route between structures 9087 and 9094. Refer to XS-3-MH-NRE on Mapsheet 1 of 3 NRE and XS-5-MH-NRE on Mapsheet 3 of 3 NRE for configuration on USACE-owned land.



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- CT Protected/Open Space (Mansfield Hollow Wildlife Management Area managed by the CT DEEP); CFPA's Nipmuck Trail (East Branch)

Zoning
- Town of Mansfield
  - Current:
    - Rural Agriculture Residence 90 Zone (RAR-90)
  - Flood Hazard Zone (FH)
- Town of Chaplin
  - Current:
    - Rural Agriculture Residence District (RAR)

Natural Systems
- Natchaug River and its associated tributaries
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Mansure Pond
- Natural Diversity Data Base Area
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Natchaug River

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9087 to 9090
- Agricultural adjacent to structure 9092
- Mansfield Hollow WMA(USACE-owned property) west of and adjacent to structure 9087 and between structures 9094 to east of 9096
- Upland and/or wetland forest adjacent to structures 9087 to east of 9096
- Nipmuck Trail, East Branch between structures 9086 and 9087

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-67, W20-68, W20-69, W20-70, W20-71, W20-72, W20-73, W20-74
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-20, S20-21, S20-21A, S20-22 (Natchaug River)

Potential Access
- Structure 9087 can be accessed from Bassetts Bridge Road
- Structures 9088 to 9095 can be accessed from South Bedlam Road
- Structures 9096 to 9097can be accessed from U.S. Route 6/Willimantic Road (see Mapsheet 3 of 3 NRE)

Right-of-Way Vegetation
- Upland and wetland forest, open field-shrub, agricultural, house/yard

Terrain
- Broad, rolling hills

Existing Right-of-Way Width
- 150 to 300 feet

Additional Right-of-Way Width Required
- 0 feet

Existing Managed Right-of-Way Width
- 100 feet (Segment 1 USACE-owned land) to 140 feet (Segment 2 USACE-owned land; privately-owned land)

Additional Managed Right-of-Way Width Required
- 10 to 50 (within USACE-owned properties) to 90 feet

Road Crossings/Major Utility Crossings
- Bassetts Bridge Road between structures 9087 and 9088
- South Bedlam Road between structures 9089 and 9090

Nipmuck Trail, East Branch (Blue Dot Trail)

BASSETTS

BRIDGE RD

SOUTH BEDLAM RD

NU Property

Existing 150-foot-Wide ROW, No ROW Expansion. All Existing Structures to be Removed and Rebuilt.

Match Line Maps 1 and 2 of 3 NRE

Match Line Maps 2 and 3 of 3 NRE

MANSFIELD

CHAPLIN

RAR-90

RAR

FH

Connecticut Natural Diversity Data Base Area

Mansfield Hollow Wildlife Management Area

Mansfield Hollow Wildlife Management Area

Nipmuck Trail, East Branch (Blue Dot Trail)

Mansure Pond

Natchaug River

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Mansfield Hollow No ROW Expansion Option

Mapsheet 2 of 3 NRE

Connecticut Light & Power
A Northeast Utilities Company

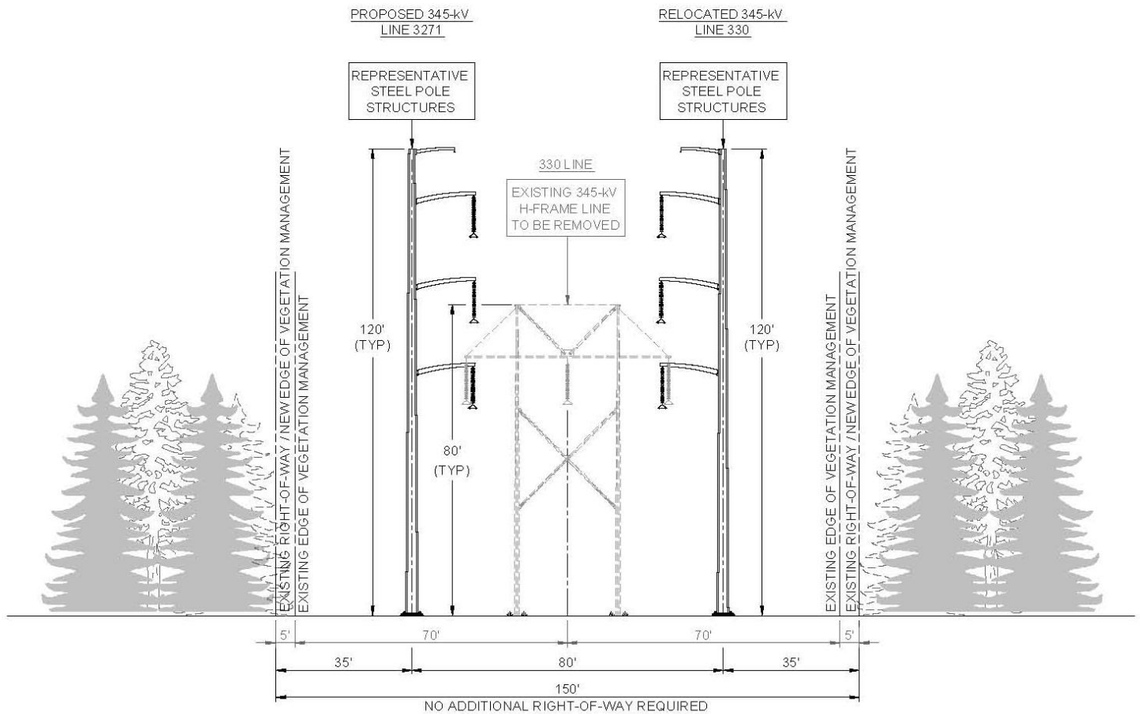
AECOM

Date: December 2011

MAPSHEET 3 of 3 NRE:

Interstate Reliability Project
No ROW Expansion Configuration Option: Mansfield Hollow Area Segment 2
Existing Structure Locations 9097 to 9107
East of Natchaug River (including WMA and U.S. Route 6/Willimantic Road) to Park Drive
Town of Chaplin, CT

Note: XS-5-MH-NRE (depicted) shows configuration across Mansfield Hollow WMA. Refer to XS-6 on Mapsheet 12of 40 in Exhibit 2 for Proposed ROW Configuration structures 9100 to 9107.



AREA DESCRIPTION

Existing Land Use
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Fin, Fur and Feather Club, Inc. privately managed, and Mansfield Hollow Wildlife Management Area and Natchaug State Forest and Trail managed by the CT DEEP)

Zoning
- Current:
  - Business District (B)
  - Rural Agriculture Residence District (RAR)

Natural Systems
- Natural Diversity Data Base Area
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Tucker Pond
- Mixed hardwood forest varying in size and age
- 100-year flood zone

Visual Character
- Residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- USACE-owned property Mansfield Hollow WMA adjacent to and between structures 9097 and 9099
- Upland and/or wetland forest adjacent to structures 9097 to 9108

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-75, W20-76, W20-77, W20-78, W20-79, W20-80, W20-81, W20-82, W20-83, W20-84, W20-85
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-24, S20-25, S20-26, S20-27

Potential Access
- Structures 9097 to 9108 can be accessed from either U.S. Route 6/Willimantic Road or Chewink Road (see Ex. 2, Proposed Route Mapsheet 12 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Broad, rolling hills

Existing Right-of-Way Width
- 150 to 300 feet

Additional Right-of-Way Width Required
- 0 feet

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 10 feet (across USACE-owned property)-to-90 feet

Road Crossings/Major Utility Crossings
- U.S. Route 6/Willimantic Road between structures 9100 and 9101

Existing 150-foot-Wide ROW, No ROW Expansion. All Existing Structures to be Removed and Rebuilt.

Match Line Maps 2 and 3 of 3 NRE

Mansfield Hollow Wildlife Management Area

RAR

Connecticut Natural Diversity Data Base Area

CHAPLIN

Town Open Space

Natchaug State Forest

Natchaug Forest Trail

Fin, Fur and Feather Club, Inc.

Tucker Pond

US ROUTE 6

CHAPLIN WOODS DR

WILLIMANTIC RD

CHAPPELL ST

PARK DR

S20-23 S20-24 S20-25 S20-26 S20-27

W20-74 W20-75 W20-76 W20-77 W20-78 W20-79 W20-80 W20-81 W20-82 W20-83 W20-84 W20-85

98 99 100 101 102 103 104 105 106 107 108 109

9097 9098 9099 9100 9101 9102 9103 9104 9105 9106 9107 9108

PFO PSS OFS UF OW

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Mansfield Hollow No ROW Expansion Option

Mapsheet 3 of 3 NRE

Connecticut Light & Power
A Northeast Utilities Company

AECOM

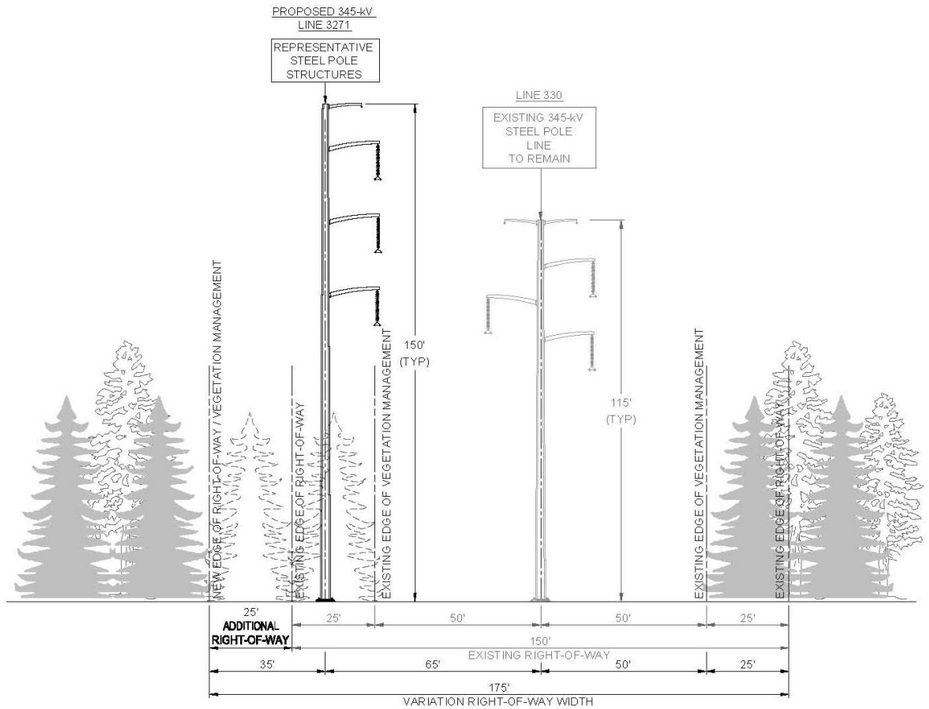
Date: December 2011

Minimal ROW Expansion Option

MAPSHEET 1 of 3 MRE:

Interstate Reliability Project
Minimal ROW Expansion Configuration Option: Mansfield Hollow Area Segment 1
Existing Structure Locations 9077 to 9086
Bassetts Bridge Road to Nipmuck Trail (East Branch)
Town of Mansfield, CT

Note: Cross-section shown (XS-3-MH-MRE) applies to USACE property only. See cross-section (XS-2) in Exhibit 2 on Mapsheet 8 of 40 for transmission line and ROW configuration on non-USACE lands.



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- Commercial/Industrial
- CT Protected/Open Space (Joshua's Tract Conservation and Historic Land Trust (The Pond Lot and Wildlife Area) privately managed, Town Open Space (Storrs & Bassetts Bridge Roads) managed by the Town of Mansfield, Mansfield Hollow State Park and Mansfield Hollow Lake managed by the CT DEEP and the U.S. Army Corps of Engineers (USACE), and Mansfield Hollow Wildlife Management Area (WMA) managed by the CT DEEP)
- Mansfield Hollow Levee (recreational trail); Red Trail (hiking trail in State Park); CFPA's Nipmuck Trail (East Branch)

Zoning
- Current:
  - Rural Agriculture Residence 90 Zone (RAR-90)
  - Flood Hazard Zone (FH)

Natural Systems
- Open water (ponds)
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Mansfield Hollow Lake
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Mansfield Hollow Lake

Visual Character
- Residential, agricultural, commercial/industrial, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Agricultural adjacent to and between structures 9076 to 9078
- Residential near structures 9080, and 9081
- Mansfield Hollow State Park (USACE-owned property) adjacent to and northwest of structure 9081 to east side of Mansfield Hollow Lake
- Mansfield Hollow WMA (USACE-owned property) near Levee Trail and along east side of lake to east of structure 9086
- Upland and/or wetland forest adjacent to structures 9077 to 9080, and 9082 to 9086
- Flood Control Levee Trail between structures 9080 and 9081
- Mansfield Hollow State Park Trail (Red Trail) between structures 9082 and 9085
- Nipmuck Trail, East Branch between structures 9086 and 9087

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-63, W20-64, W20-65, W20-66
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Waterbody: Mansfield Hollow Lake
- Stream No.: S20-19

Potential Access
- Structures 9077 to 9085 can be accessed from Bassetts Bridge Road; Structure 9086 can be accessed from Bassetts Bridge Road on east side of lake.

Right-of-Way Vegetation
- Open field, shrub land, upland forest, forested and scrub-shrub wetland (W20-66 adjacent to Mansfield Hollow Lake)

Terrain
- Broad, rolling hills

Existing Right-of-Way Width
- 150 (USACE property)to 300 feet

Additional Right-of-Way Width Required
- 0 to 25 feet: 25 feet within USACE-owned property Mansfield Hollow State Park and WMA only

Existing Managed Right-of-Way Width
- 100 feet (USACE property) to 140 feet

Additional Managed Right-of-Way Width Required
- 50 to 90 feet (50-foot-width within USACE-owned property Mansfield Hollow State Park and WMA only)

Road Crossings/Major Utility Crossings
- Bassetts Bridge Road between structures 9076 and 9077, and 9081 and 9082

Joshua's Tract Conservation and Historic Land Trust, Inc. (Wildlife Area)

Nipmuck Trail, East Branch (Blue Dot Trail)

Mansfield Hollow Wildlife Management Area

Connecticut Natural Diversity Data Base Area

Mansfield Hollow Lake

Flood Control Levee Trail

Mansfield Hollow Park Trail / Red Trail

Mansfield Hollow State Park

MANSFIELD

Minimal ROW Expansion Option: 25 feet Additional ROW

RAR-90

W20-64

W20-63

W20-66

W20-65

S20-19

Town Open Space (Storrs and Bassetts Bridge Roads)

NU Property

Green Dragon Day Care

BASSETTS BRIDGE RD

MANSFIELD HOLLOW RD EXT.

HAWTHORNE LN

Mansfield Hollow Dam Historic District

Match Line Maps 1 and 2 of 3 MRE

77 9076 78 9077 79 9078 80 9079 81 9080 82 9081 83 9082 84 9083 85 9084 86 9085 87 9086 88

UF HY PFO OFS CI PSS AG OW FH

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Mansfield Hollow Minimal ROW Expansion Option

Mapsheet 1 of 3 MRE

Connecticut Light & Power
A Northeast Utilities Company

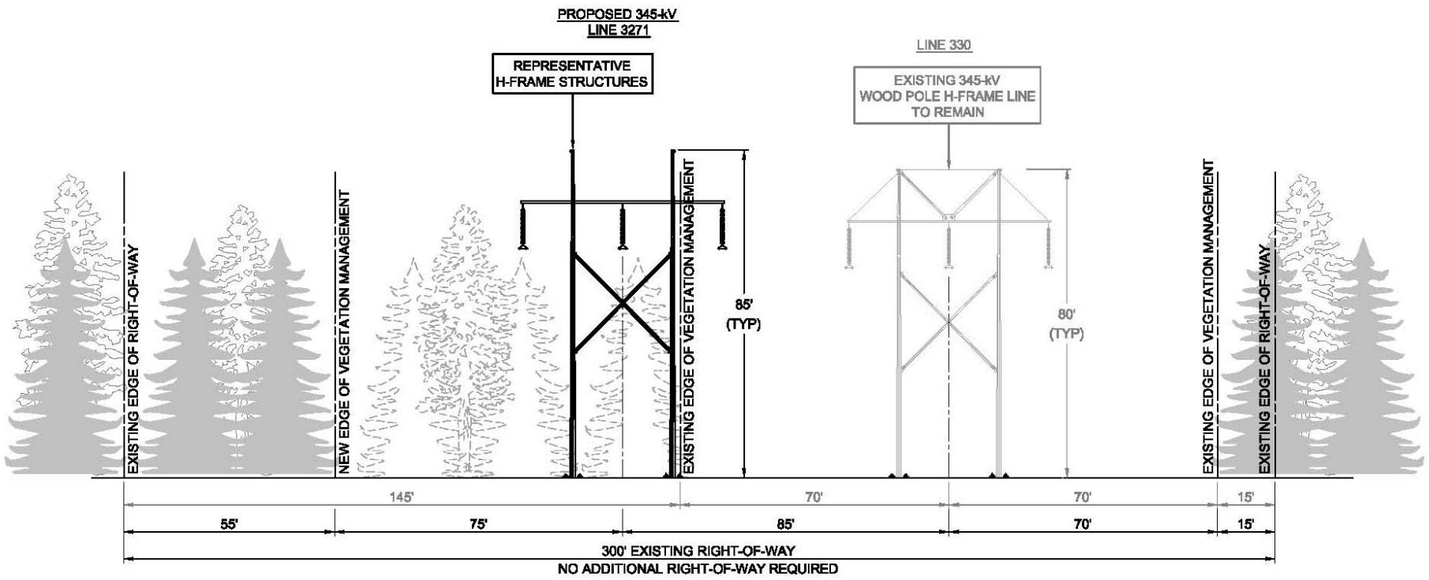
AECOM

Date: December 2011

MAPSHEET 2 of 3 MRE:

Interstate Reliability Project
Minimal ROW Expansion Configuration Option: Mansfield Hollow Area Segments 1 and 2
Existing Structure Locations 9087 to 9096
Nipmuck Trail (East Branch) to East of Natchaug River
Towns of Mansfield and Chaplin, CT

Note: XS-4 (depicted) illustrates Proposed Route between structures 9087 and 9094. Refer to XS-3-MH-MRE on Mapsheet 1 0f 3 MRE and to XS-5-MH-MRE on Mapsheet 3 of 3 MRE for the MRE configuration on USACE-owned lands.



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- CT Protected/Open Space (Mansfield Hollow Wildlife Management Area managed by the CT DEEP); Nipmuck Trail (East Branch)

Zoning
- Town of Mansfield
  - Current:
    - Rural Agriculture Residence 90 Zone (RAR-90)
  - Flood Hazard Zone (FH)
- Town of Chaplin
  - Current:
    - Rural Agriculture Residence District (RAR)

Natural Systems
- Natchaug River and its associated tributaries
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Mansure Pond
- Natural Diversity Data Base Area
- Mixed hardwood forest varying in size and age
- 100-year flood zone – Natchaug River

Visual Character
- Residential, agricultural, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential near structures 9087 to 9090
- Agricultural adjacent to structure 9092
- Mansfield Hollow WMA(USACE-owned property) west of and adjacent to structure 9087 and between structures 9094 to 9097
- Upland and/or wetland forest adjacent to structures 9087 to 9097
- Nipmuck Trail, East Branch between structures 9086 and 9087

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-67, W20-68, W20-69, W20-70, W20-71, W20-72, W20-73, W20-74
- Wetland Cover Types: Palustrine Emergent Wetland (PEM), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-20, S20-21, S20-21A, S20-22 (Natchaug River), S20-23

Potential Access
- Structure 9087 can be accessed from Bassetts Bridge Road
- Structures 9088 to 9095 can be accessed from South Bedlam Road
- Structures 9096 to 9097can be accessed from U.S. Route 6/Willimantic Road (see Mapsheet 11 of 40)

Right-of-Way Vegetation
- Upland and wetland forest, open field-shrub, agricultural, house/yard

Terrain
- Broad, rolling hills

Existing Right-of-Way Width
- 150 to 300 feet

Additional Right-of-Way Width Required
- 0 to 35 feet: 25 feet across USACE-owned Mansfield Hollow WMA in Segment 1 (Mansfield) and 35 feet across USACE-owned property within Mansfield Hollow WMA in Segment 2 (Chaplin)

Existing Managed Right-of-Way Width
- 100 (USACE-owned property – Segement 1) to 140 feet

Proposed Additional Managed Right-of-Way Width
- 40 to 90 feet: 50 feet on USACE-owned property Mansfield Hollow WMA in Mansfield (Segment 1) and 40 feet within USACE-owned property Mansfield Hollow WMA in Chaplin (Segment 2)

Road Crossings/Major Utility Crossings
- Bassetts Bridge Road between structures 9087 and 9088
- South Bedlam Road between structures 9089 and 9090

Nipmuck Trail, East Branch (Blue Dot Trail)

Minimal ROW Expansion Option: 25 feet Additional ROW

Minimal ROW Expansion Option: 35 feet Additional ROW

BASSETTS BRIDGE RD

SOUTH BEDLAM RD

NU Property

MANSFIELD

CHAPLIN

RAR-90

RAR

FH

Mansfield Hollow Wildlife Management Area

Connecticut Natural Diversity Data Base Area

Mansfield Hollow Wildlife Management Area

Nipmuck Trail, East Branch (Blue Dot Trail)

Natchaug River

Mansure Pond

Match Line Maps 1 and 2 of 3 MRE

Match Line Maps 2 and 3 of 3 MRE

88 89 90 91 92 93 94 95 96 97 98

9087 9088 9089 9090 9091 9092 9093 9094 9095 9096 9097

S20-20 S20-21 S20-21A S20-22 S20-23

W20-67 W20-68 W20-69 W20-70 W20-71 W20-72 W20-73 W20-74

HY UF PFO PSS PEM AG OFS OW

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Mansfield Hollow Minimal ROW Expansion Option

Mapsheet 2 of 3 MRE

Connecticut Light & Power
A Northeast Utilities Company

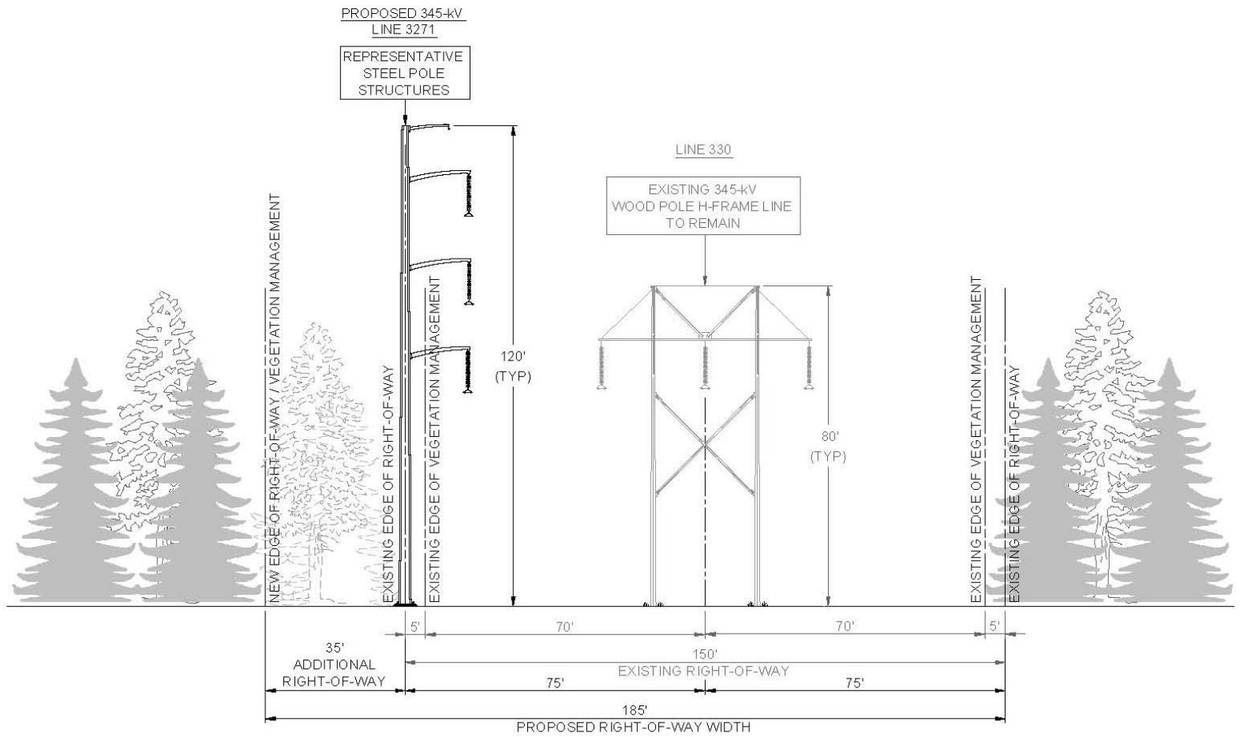
AECOM

Date: December 2011

MAPSHEET 3 of 3 MRE:

Interstate Reliability Project
Minimal ROW Expansion Configuration Option: Mansfield Hollow Area Segment 2
Existing Structure Locations 9097 to 9107
East of Natchaug River (including WMA and U.S. Route 6/Willimantic Road) to Park Drive
Town of Chaplin, CT

Note: XS-5-MH-MRE (depicted) shows the configuration across the Chaplin portion of the Mansfield Hollow WM (structures 9097 through 9099). Refer to XS-6 on Mapsheet 12 of 40 in Exhibit 2 for Proposed ROW Configuration structures 9100 to 9107..



AREA DESCRIPTION

Existing Land Use
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Fin, Fur and Feather Club, Inc. privately managed, and Mansfield Hollow WMA and Natchaug State Forest and Trail managed by the CT DEEP)

Zoning
- Current:
  - Business District (B)
  - Rural Agriculture Residence District (RAR)

Natural Systems
- Natural Diversity Data Base Area
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Tucker Pond
- Mixed hardwood forest varying in size and age
- 100-year flood zone

Visual Character
- Residential, and forest

RIGHT-OF-WAY DESCRIPTION

Land Use
- USACE-owned property Mansfield Hollow WMA adjacent to and between structures 9097 and 9099
- Upland and/or wetland forest adjacent to structures 9097 to 9108

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W20-74, W20-75, W20-76, W20-77, W20-78, W20-79, W20-80, W20-81, W20-82, W20-83, W20-84, W20-85
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-24, S20-25, S20-26, S20-27

Potential Access
- Structures 9097 to 9108 can be accessed from either U.S. Route 6/Willimantic Road or Chewink Road (see Mapsheet 12 of 40)

Right-of-Way Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Broad, rolling hills

Existing Right-of-Way Width
- 150 to 300 feet

Additional Right-of-Way Width Required
- 0 to 35 feet: 35 feet is USACE-owned property Mansfield Hollow WMA (Segment 2) only

Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 40 to 90 feet: 40 feet across USACE-owned property within Mansfield Hollow WMA (Segment 2) only

Road Crossings/Major Utility Crossings
- U.S. Route 6/Willimantic Road between structures 9100 and 9101

Minimal ROW Expansion Option: 35 feet Additional ROW

Natchaug Forest Trail

US ROUTE 6

CHAPLIN WOODS DR

Natchaug State Forest

Fin, Fur and Feather Club, Inc.

Mansfield Hollow Wildlife Management Area

Town Open Space

Connecticut Natural Diversity Data Base Area

CHAPLIN

WILLIMANTIC RD

PARK DR

CHAPPELL ST

Tucker Pond

Match Line Maps 2 and 3 of 3 MRE

RAR

B

98 99 100 101 102 103 104 105 106 107 108 109

9096 9097 9098 9099 9100 9101 9102 9103 9104 9105 9106 9107 9108

S20-23 S20-24 S20-25 S20-26 S20-27

W20-74 W20-75 W20-76 W20-77 W20-78 W20-79 W20-80 W20-81 W20-82 W20-83 W20-84 W20-85

PFO PSS OFS OW UF

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guy Relocation)
- Proposed Structure **(1)**
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- R80 Zoning Designation

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; Optimal Geomatics 2007 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Mansfield Hollow Minimal ROW Expansion Option

Mapsheet 3 of 3 MRE

Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

EX. 3: Variations Aerial Photographs – 400 Scale

INDEX
EXHIBIT 3
INTERSTATE RELIABILITY PROJECT: VARIATIONS

Mansfield Underground Variation

Mapsheet	Town(s)	Existing Structure Numbers
1 of 1	Mansfield	9041 to 9047

Mount Hope Underground Variation

Mapsheet	Town(s)	Existing Structure Numbers
1 of 2	Mansfield	9068 to 9073
2 of 2	Mansfield	9074 to 9078

Brooklyn Overhead Variation

Mapsheet	Town(s)	Existing Structure Numbers / Location
1 of 5	Brooklyn	9201 to Barrett Hill Road
2 of 5	Brooklyn	Barrett Hill Road to Darby Road
3 of 5	Brooklyn, Pomfret	Darby Road to Spaulding Road
4 of 5	Brooklyn, Pomfret	Spaulding Road to East of Searles Road
5 of 5	Pomfret	East of Searles Road to Existing Overhead ROW (Near Structure 9230)

Brooklyn Underground Variation

Mapsheet	Town(s)	Existing Structure Numbers
1 of 2	Brooklyn	9208 to 9218
2 of 2	Brooklyn	9219 to 9221

Willimantic South Overhead Variation

Mapsheet	Town(s)	Location
1 of 11	Lebanon	Card Street Substation to Beaumont Highway
2 of 11	Lebanon, Windham	Beaumont Highway to Gates Road
3 of 11	Windham	Jordan Road to South Windham Road
4 of 11	Windham	South Windham Road to Plains Road
5 of 11	Windham	North Road to Ballamahack Road
6 of 11	Windham	Ballamahack Road to Ballymahack Brook
7 of 11	Windham	Ballymahack Brook to Beaver Hill Road
8 of 11	Windham	West of Beaver Brook State Park
9 of 11	Windham	West of Beaver Brook State Park
10 of 11	Windham, Chaplin	West of Beaver Brook State Park
11 of 11	Chaplin	Lynch Road to Chewink Road (Near Structure 9111)

Willimantic South Underground Variation

Mapsheet	Town(s)	Location
1 of 13	Lebanon	Card Street Substation and along Card Street
2 of 13	Windham	Card Street to Pleasant Street
3 of 13	Windham	Pleasant Street to Plains Road
4 of 13	Windham	Plains Road
5 of 13	Windham	Plains Road to North Route (State Route 203)
6 of 13	Windham	North Road (State Route 14) to North Windham Road (State Route 203)
7 of 13	Windham	North Windham Road (State Route 14)
8 of 13	Windham	North Windham Road (State Route 203)
9 of 13	Windham	North Windham Road (State Route 203)
10 of 13	Windham	North Windham Road (State Route 203)
11 of 13	Windham, Chaplin	North Windham Road (State Route 203) to U.S. Route 6 (Boston Post Road/Willimantic Road)
12 of 13	Chaplin	Willimantic Road (US Route 6)
13 of 13	Chaplin	Willimantic Road (U.S. Route 6) to Line Transition Station along CL&P ROW (Near Structure 9107)

National Grid to Construct Rhode Island and Massachusetts Portions of the Interstate Reliability Project

Somers
Stafford
Union
Woodstock
Thompson
Ellington
Willington
Eastford
Putnam
Tolland
Ashford
Pomfret
Killingly
Connecticut
Rhode Island
Killingly Substation
Lake Road Switching Station
Brooklyn Overhead Variation
Brooklyn Underground Variation
Mount Hope Underground Variation
Proposed Route
Mansfield Underground Variation
Willimantic South Overhead Variation
Willimantic South Underground Variation
Card Street Substation
Vernon
Coventry
Chaplin
Brooklyn
Hampton
Mansfield
Bolton
Andover
Columbia
Hebron
Lebanon
Windham
Scotland
Canterbury
Plainfield
Sterling

5 of 5
4 of 5
3 of 5
2 of 5
1 of 5
2 of 2
1 of 2
13 of 13
12 of 13
11 of 13
10 of 13
9 of 13
8 of 13
7 of 13
6 of 13
5 of 13
4 of 13
3 of 13
2 of 13
1 of 13
11 of 11
10 of 11
9 of 11
8 of 11
7 of 11
6 of 11
5 of 11
4 of 11
3 of 11
2 of 11
1 of 11
2 of 2
1 of 2

Index Map

- Brooklyn Overhead Variation
- Brooklyn Underground Variation
- Mansfield Underground Variation
- Mount Hope Underground Variation
- Willimantic South Overhead Variation
- Willimantic South Underground Variation

Map Location

MA
CT
RI
NY

Legend

- Substation
- Switching Station
- Proposed 345-kV Line (Centerline)
- Willimantic South Overhead Variation
- Willimantic South Underground Variation
- Mansfield Underground Variation
- Mount Hope Underground Variation
- Brooklyn Overhead Variation
- Brooklyn Underground Variation

0 2.5 5 7.5 10 Miles

1 inch = 2.5 miles

Data Source: B&McD 2010, CT DEEP GIS

N W E S

Interstate Reliability Project Variations Index Map

Connecticut Light & Power
A Northeast Utilities Company

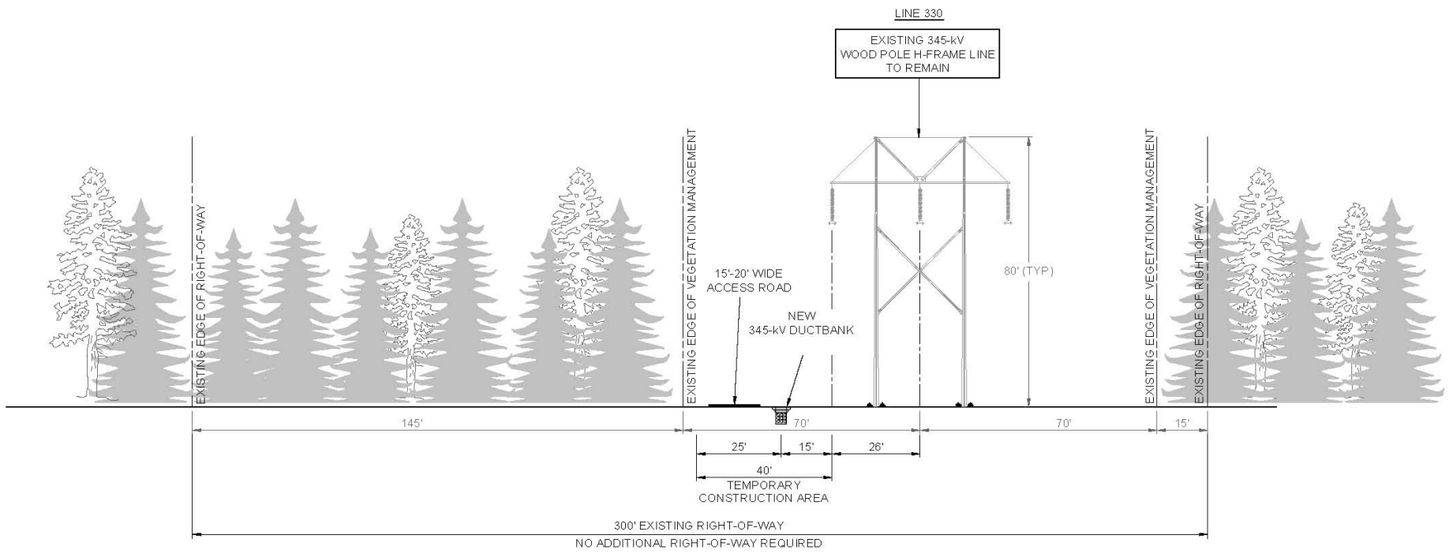
AECOM

Date: December 2011

Mansfield Underground Variation

MAPSHEET 1 of 1:

Interstate Reliability Project
Mansfield Underground Variation
Existing Structure Locations 9041 to 9047
Town of Mansfield, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Commercial
- Connecticut (CT) Protected/Open Space - Town Open Space vicinity of Woodmont Road, Highland Road, and Stearns Road managed by the Town of Mansfield),privately managed

Zoning
- Current:
  - Rural Agriculture Residence 40 Zone (RAR-40)
  - Mansfield West Residential Area
- Planned:
  - Planned Business 5 Zone (PB-5)

Natural Systems
- Conantville Brook and its associated tributaries
- Perkins Corner Pond
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Mixed hardwood forest of varying size and age

Visual Character
- Forest, residential, and agricultural

VARIATION DESCRIPTION

Adjacent Land Use
- Residential near Highland Road and Stone Ridge Lane
- CT Protected/Open Space – Town open space (Stearns and Highland Road vicinity)
- Upland and/or wetland forest

Wetlands, Watercourses and Waterways
- Wetland Nos.: W20-37, W20-38, W20-39, W20-39A, W20-40, W20-41, W20-42, W20-43
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream Nos.: S20-7, S20-8

Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Steep hills to broad hill tops

Existing Right-of-Way Width
- 300 feet

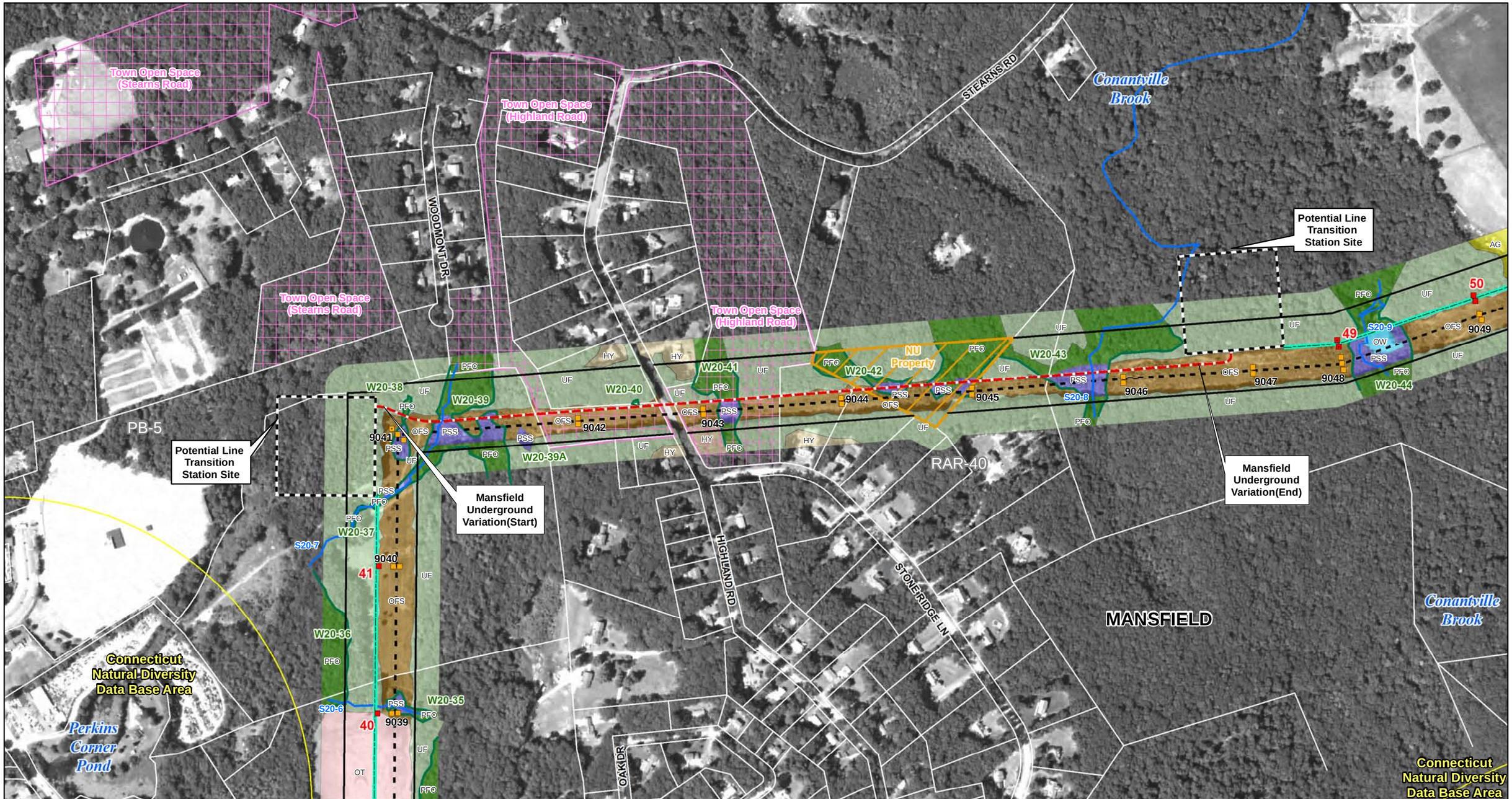
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 0 (cable duct bank) to 40 feet (splice vaults not shown on cross-section)

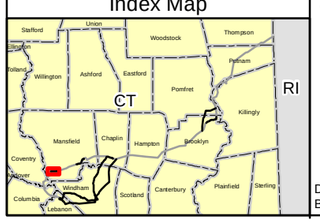
Additional Land Acquisition Required
- Up to 8 acres private property for two line transition stations

Road Crossings/Major Utility Crossings
- Highland Road, two lanes

Note: Overhead route description and cross-section can be found on Mapsheet 6 of 40, Interstate Reliability Project, Proposed Route.



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- Municipal/Private Park or Open Space
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV Underground Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- R80 Zoning Designation
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

Interstate Reliability Project

Mansfield Underground Variation

Mapsheet 1 of 1

Connecticut Light & Power
A Northeast Utilities Company

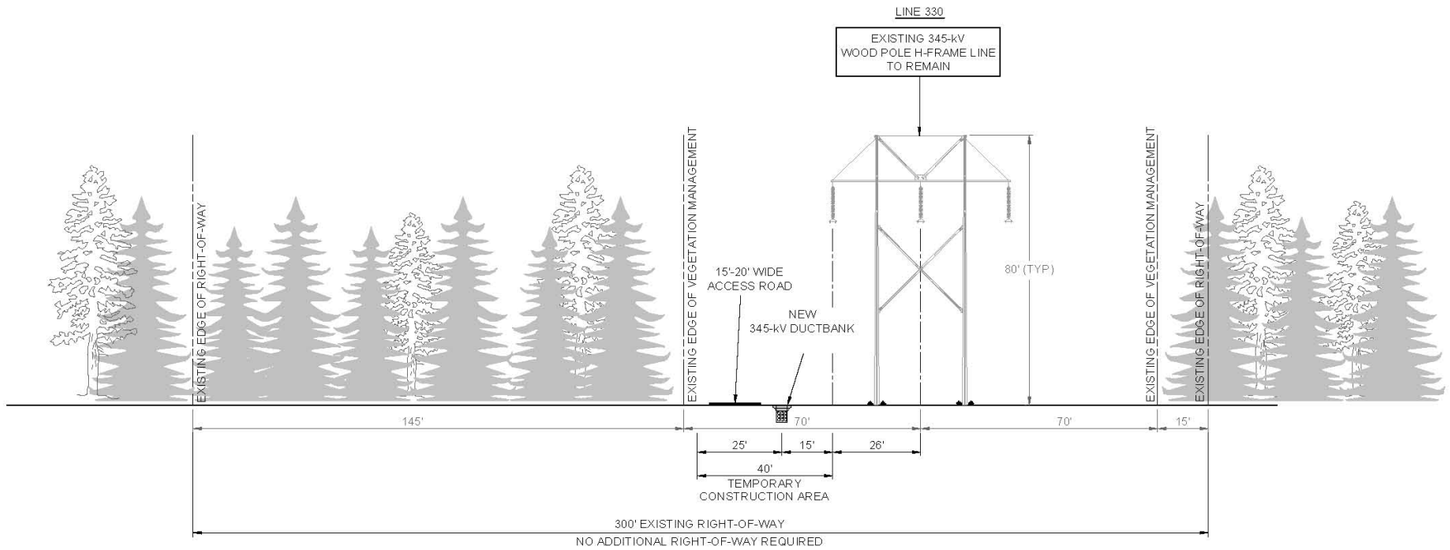
AECOM

Date: December 2011

Mount Hope Underground Variation

MAPSHEET 1 of 2:

Interstate Reliability Project
Mount Hope Underground Variation
Existing Structure Locations 9068 to 9073
Town of Mansfield, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Commercial/Industrial
- CT Protected/Open Space, Town Open Space (Sawmill Brook Land) managed by the Town of Mansfield, Joshua's Tract Conservation and Historic Land Trust (Wolf Rock Nature Preserve) privately managed; Connecticut Forest and Park Association Nipmuck Trail (West Branch)
- Mansfield Hollow Historic District
- Come Play with Me Day Care

Zoning
- Current:
  - Rural Agriculture Residence 40 Zone (RAR-40)
  - Rural Agriculture Residence 90 Zone (RAR-90)
  - Flood Hazard Zone (FH)
  - Mansfield Hollow Historic District

Natural Systems
- Natchaug River and its associated tributaries
- Sawmill Brook and its associated tributaries
- Open water (ponds)
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- 100-year flood zone - Sawmill Brook
- Natural Diversity Data Base Areas

Visual Character
- Residential, agricultural, and forest

VARIATION DESCRIPTION

Land Use
- Residential
- Agricultural
- Commercial/Industrial
- Upland and/or wetland forest

Wetlands, Watercourses and Waterways
- Wetland Nos.: W20-60, W20-61, W20-62, W20-62A, W20-62B, W20-62C
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S20-18, S20-19A

Vegetation
- Open field-shrub, upland and wetland forest, agricultural, house/yard

Terrain
- Hilly to broad, flat hill tops

Existing Right-of-Way Width
- 300 feet

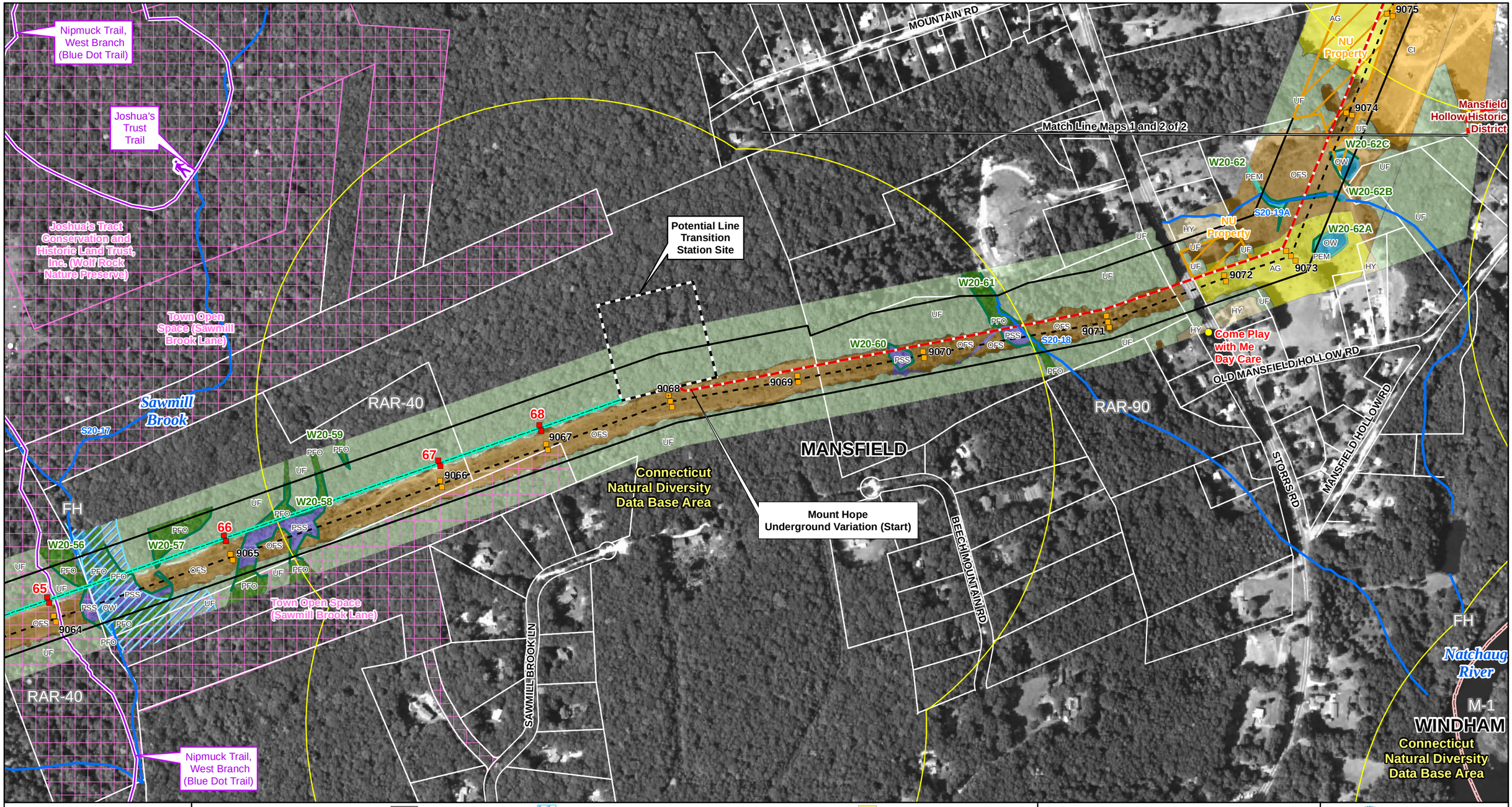
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 0 (cable duct bank) to 40 feet (splice vaults, not shown on cross-section)

Additional Land Acquisition Required
- Up to 4 acres private property for line transition station

Road Crossings/Major Utility Crossings
- Storrs Road (State Route 195), two lanes (crosses)

Note: Overhead route description and cross-section can be found on Ex. 2, Mapsheet 8 of 40, Interstate Reliability Project, Proposed Route.



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Proposed Structure **(9001)**
- Proposed Structure (Guyed)
- Existing Structure **(1)**
- Existing Structure (Guyed)
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

R80 Zoning Designation

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

Interstate Reliability Project

Mount Hope Underground Variation

Mapsheet 1 of 2

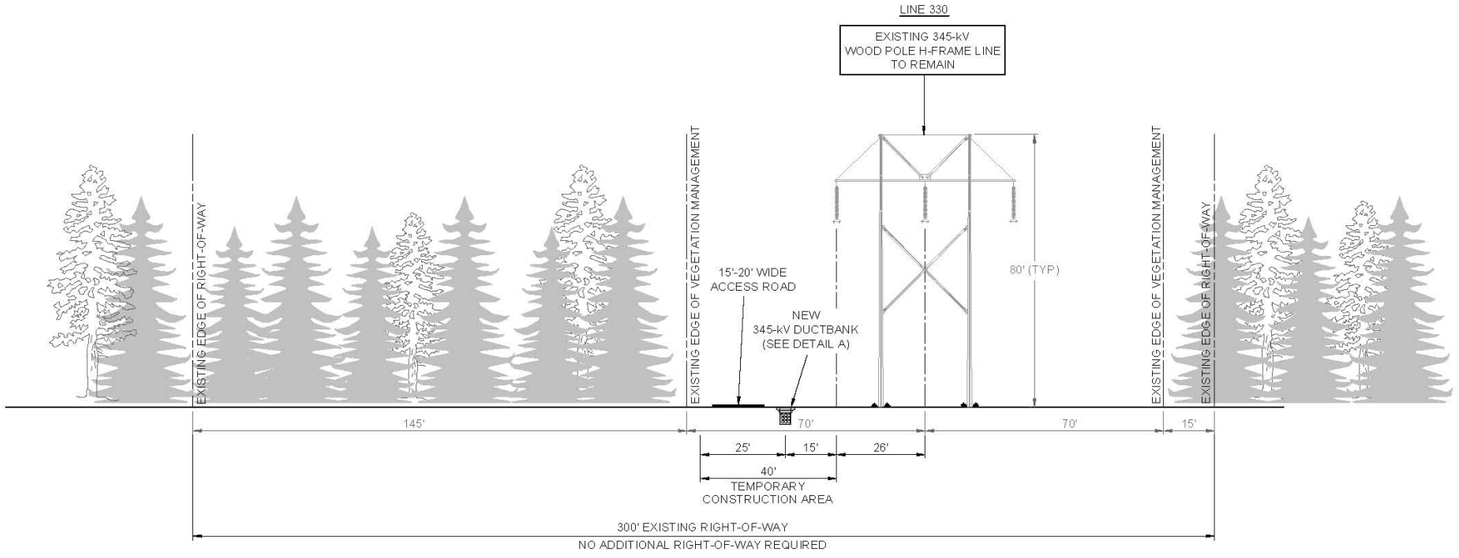
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 2 of 2:

Interstate Reliability Project
Mount Hope Underground Variation
Existing Structure Locations 9074 to 9078
Town of Mansfield, CT



AREA DESCRIPTION

Existing Land Use

- Agricultural
- Residential
- Commercial/Industrial
- CT Protected/Open Space - Mansfield Cemetery privately managed, Town Open Space (Storrs & Bassetts Bridge Roads) managed by the Town of Mansfield, Joshua's Tract Conservation and Historic Land Trust (The Pond Lot and Wildlife Area) privately managed and Mansfield Hollow State Park and WMA managed by the CT DEEP
- Mansfield Hollow Historic District
- Mansfield Hollow Dam Historic District
- Mansfield Center Historic District
- Mount Hope Montessori School
- Green Dragon Day Care

Zoning

- Current:
  - Rural Agriculture Residence 40 Zone (RAR-40)
  - Rural Agriculture Residence 90 Zone (RAR-90)
  - Flood Hazard Zone (FH)
  - Mansfield Hollow Historic District; Mansfield Center Historic District

Natural Systems

- Natchaug River and its associated tributaries
- Open water (ponds)
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- 100-year flood zone (Mansfield Hollow Lake)
- Natural Diversity Data Base Area

Visual Character

- Residential, agricultural, and forest

VARIATION DESCRIPTION

Land Use

- Residential
- Agricultural
- Commercial/Industrial
- Upland and/or wetland forest

Wetlands, Watercourses and Waterways

- Wetland Nos.: W20-62, W20-62A, W20-62B, W20-62C, W20-64
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream Nos.: S20-19

Vegetation

- Open field-shrub, upland and wetland forest, agricultural

Terrain

- Hilly to broad, flat hill tops

Existing Right-of-Way Width

- 300 feet

Existing Managed Right-of-Way Width

- 140 feet

Additional Managed Right-of-Way Width Required

- 0 (cable duct bank) to 40 feet (splice vaults, not shown on cross-section)

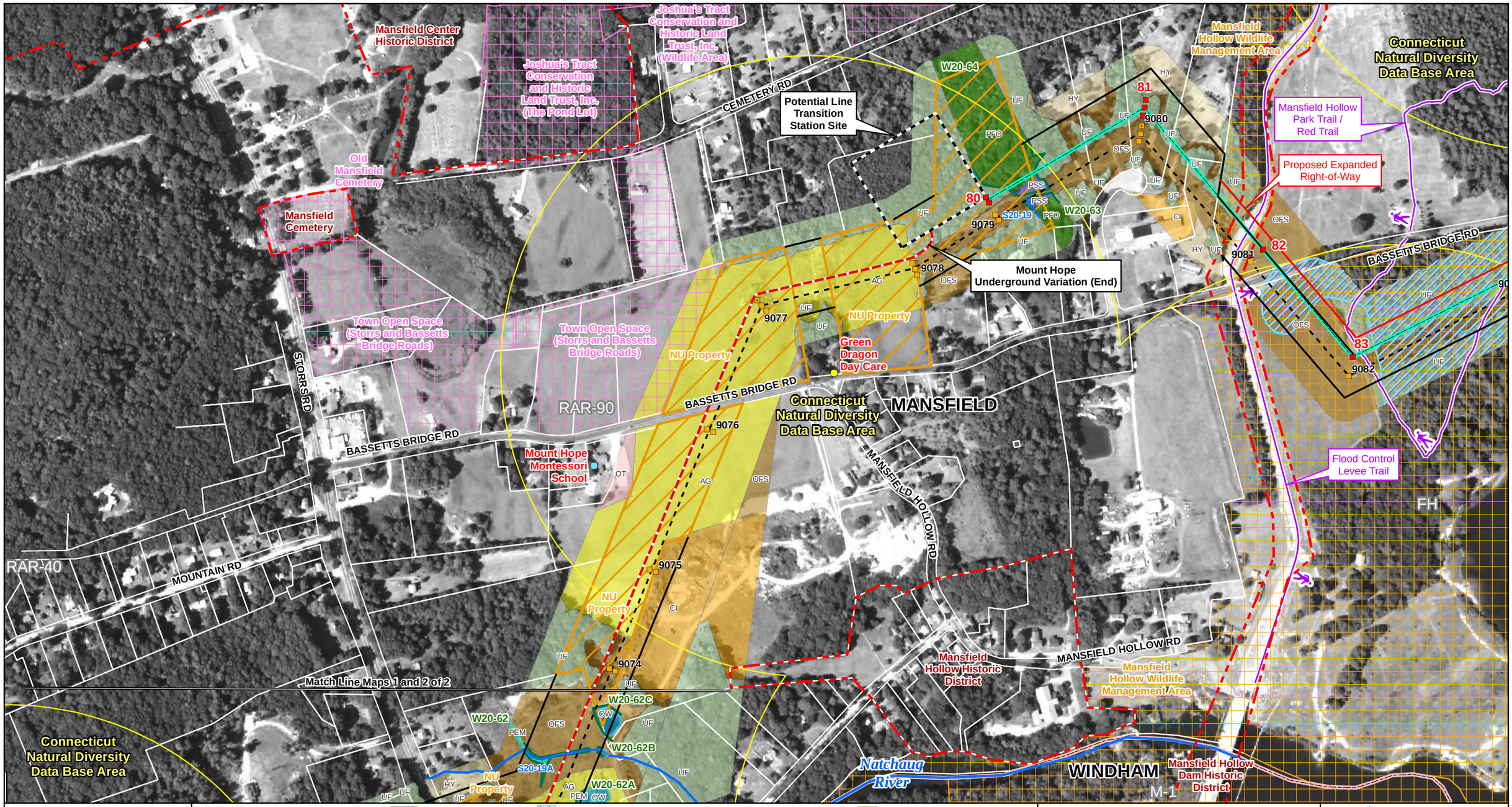
Additional Land Acquisition Required

- Up to 2 acres on private property and 2 acres of CL&P-owned property for line transition station

Road Crossings / Major Utility Crossings

- Bassetts Bridge Road, two lanes (crosses)

Note: Overhead route descriptions and cross-sections can be found on Ex. 2, Mapsheets 8 and 9 of 40, Interstate Reliability Project, Proposed Route.



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Proposed Structure **(9001)**
- Proposed Structure (Guyed)
- Existing Structure **(1)**
- Existing Structure (Guyed)
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area
- Municipal/Private Park or Open Space

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- R80 Zoning Designation
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

0 400 800 Feet

1:4,800

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

Interstate Reliability Project

Mount Hope Underground Variation

Mapsheet 2 of 2

Connecticut Light & Power
A Northeast Utilities Company

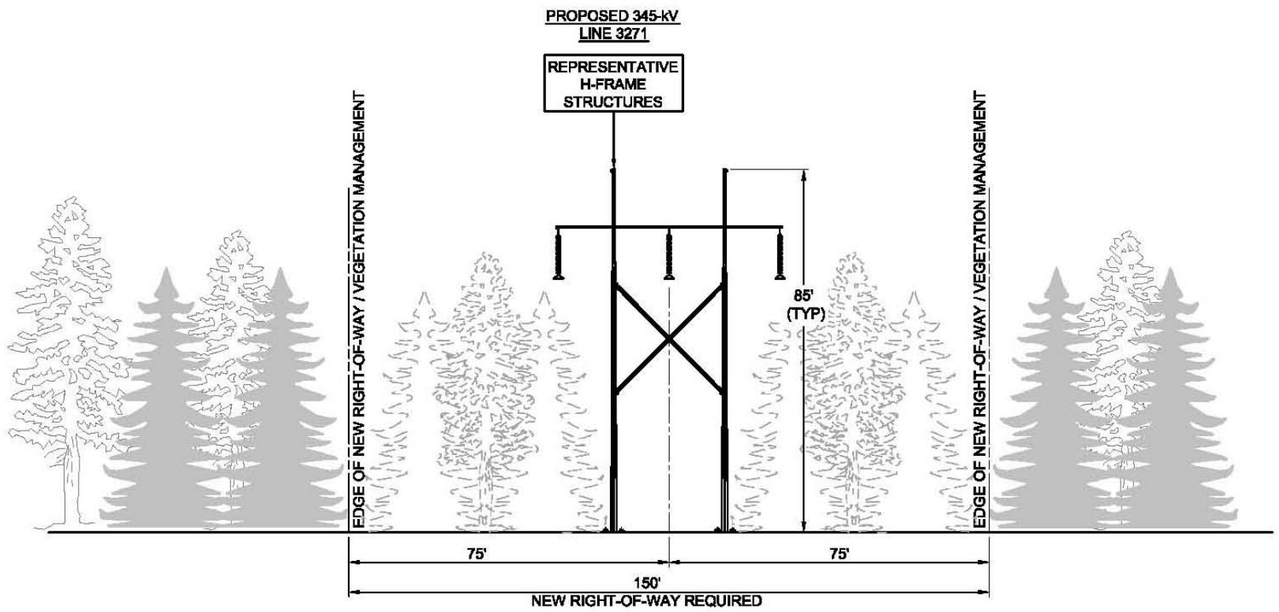
AECOM

Date: December 2011

Brooklyn Overhead Variation

MAPSHEET 1 of 5:

Interstate Reliability Project
Brooklyn Overhead Variation
Existing Structure 9201 to Barrett Hill Road
Town of Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Connecticut (CT) Protected/Open Space (Wolf Den Land Trust; Colonel Daniel Putnam Association, Inc., privately managed)
- CL&P transmission line ROW

Zoning
- Current:
  - Residential Agricultural (RA)

Natural Systems
- Tanner Brook and its associated tributes
- Gorman Pond
- Lester Williams Pond
- White Brook and its associated tributes
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Mixed hardwood forest of varying size and age
- 100-year flood zone (White Brook)

Visual Character
- Forest, residential, and agricultural
- National Scenic Byway (Pomfret Road/State Route 169)

VARIATION DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to and within variation ROW

Wetlands, Watercourses and Waterbodies
- Wetland No.: W20-152
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)

Potential Access
- Structures could be accessed from Barrett Hill Road

Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Hilly to steep

Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- Electric Distribution Line/Utility Corridor

Note: Description of the portions of the Proposed Route that this line-route variation would replace can be found on Ex. 2, Mapsheets 22 and 23 of 40, Interstate Reliability Project, Proposed Route.

Match Line Maps 1 and 2 of 5

BARRETT HILL RD

Gorman Pond

Electric Distribution Line / Utility Corridor

STATE ROUTE 169 (NATIONAL SCENIC BYWAY)

POMFRET RD

BROOKLYN

RA

Tanner Brook

Connecticut Natural Diversity Data Base Area

Wolf Den Land Trust

Colonel Daniel Putnam Association, Inc.

White Brook

Brooklyn Overhead Variation

Existing CL&P 345-kV Transmission Line ROW

Proposed Route

Lester Williams Pond

9205 9204 9203 9202 9201 9200

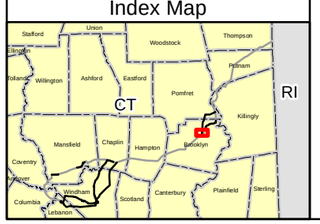
202 201

W20-152 W20-151 S20-48 S20-47A S20-47

UF OFS CI PFO PSS OW PEM HY

Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- Connecticut Natural Diversity Data Base Area
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

R80 Zoning Designation

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Brooklyn Overhead Variation

Mapsheet 1 of 5

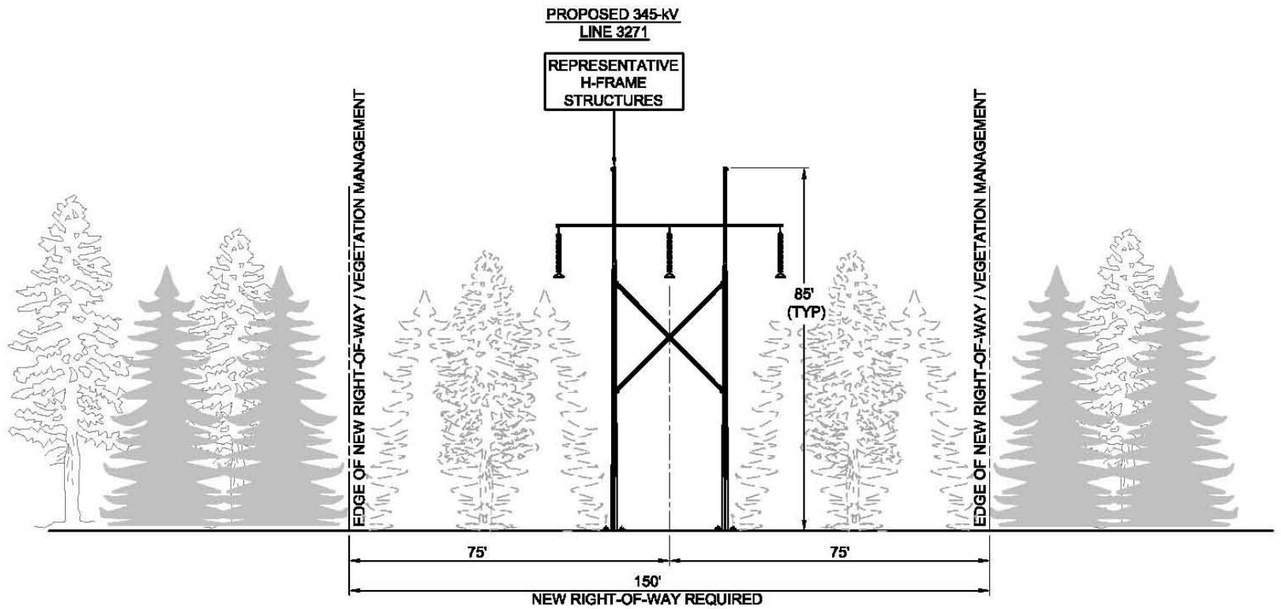
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 2 of 5:

Interstate Reliability Project
Brooklyn Overhead Variation
Barrett Hill Road to Darby Road
Town of Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected Open Space (Wolf Den Land Trust, Inc. White Brook Property; Steven Townsend Trust; Colonel Daniel Putnam Association, Inc. privately managed)
- CL&P transmission line ROW

Zoning
- Current:
  - Residential Agricultural (RA)
  - Residence 30 Zone (R-30)

Natural Systems
- White Brook and its associated tributes
- Open water (ponds)
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- Natural Diversity Data Base Area

Visual Character
- Forest, agricultural, and residential

VARIATION DESCRIPTION

Land Use
- Residential near variation ROW
- Upland and/or wetland forest adjacent to and within variation ROW
- CT Protected / Open Space – Steven Townsend Trust

Wetlands, Watercourses and Waterbodies
- Wetland No.: W24-1
- Wetland Cover Type: Palustrine Forested Wetland (PFO)
- Stream No.: S24-1 (White Brook)

Potential Access
- Structures could be accessed from Barrett Hill Road

Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Hilly to steep

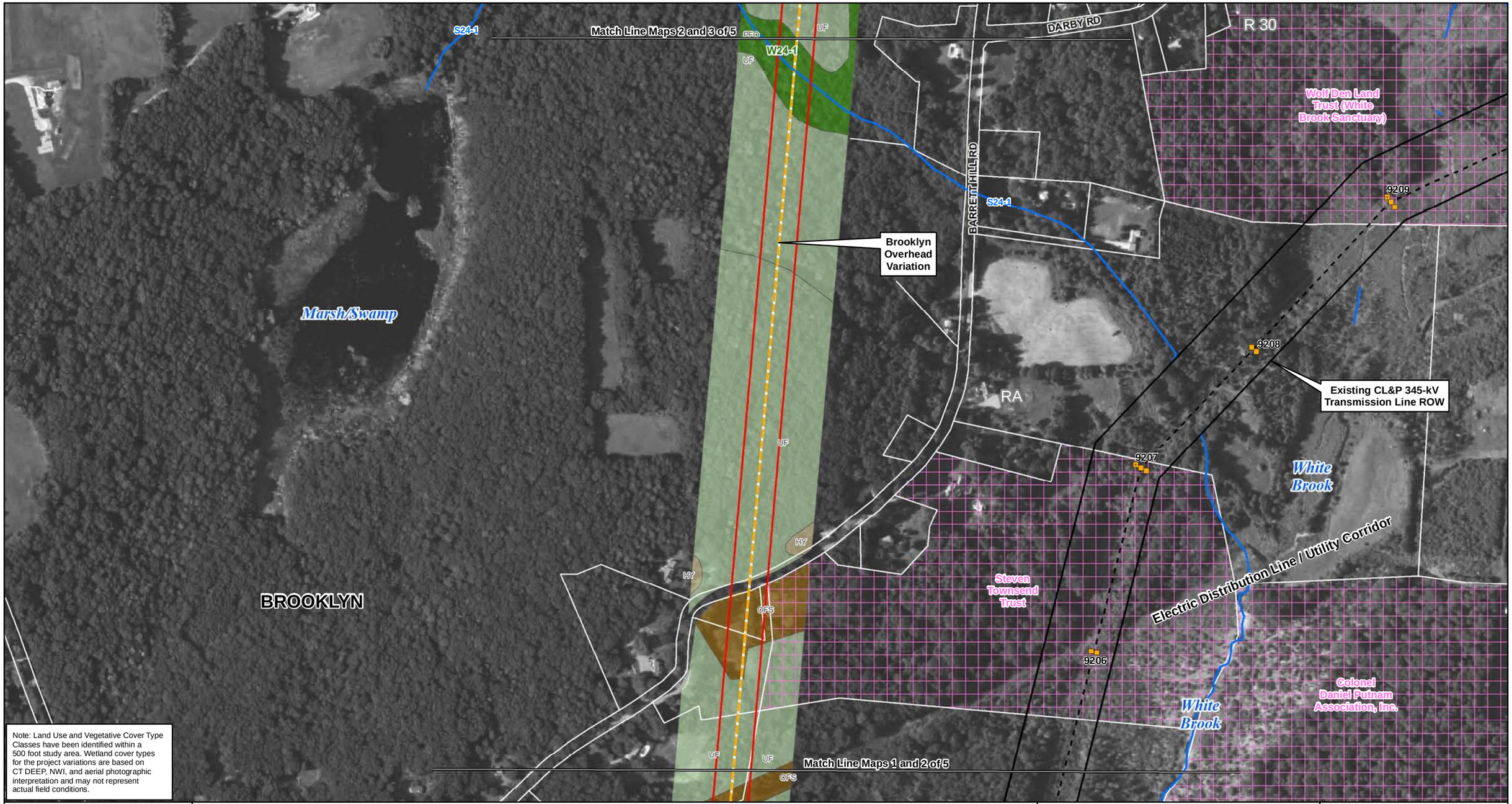
Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

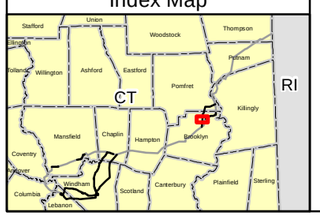
Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- Barrett Hill Road
- Electric Distribution Line/Utility Corridor



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- Connecticut Natural Diversity Data Base Area
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

R80 Zoning Designation

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Brooklyn Overhead Variation

Mapsheet 2 of 5

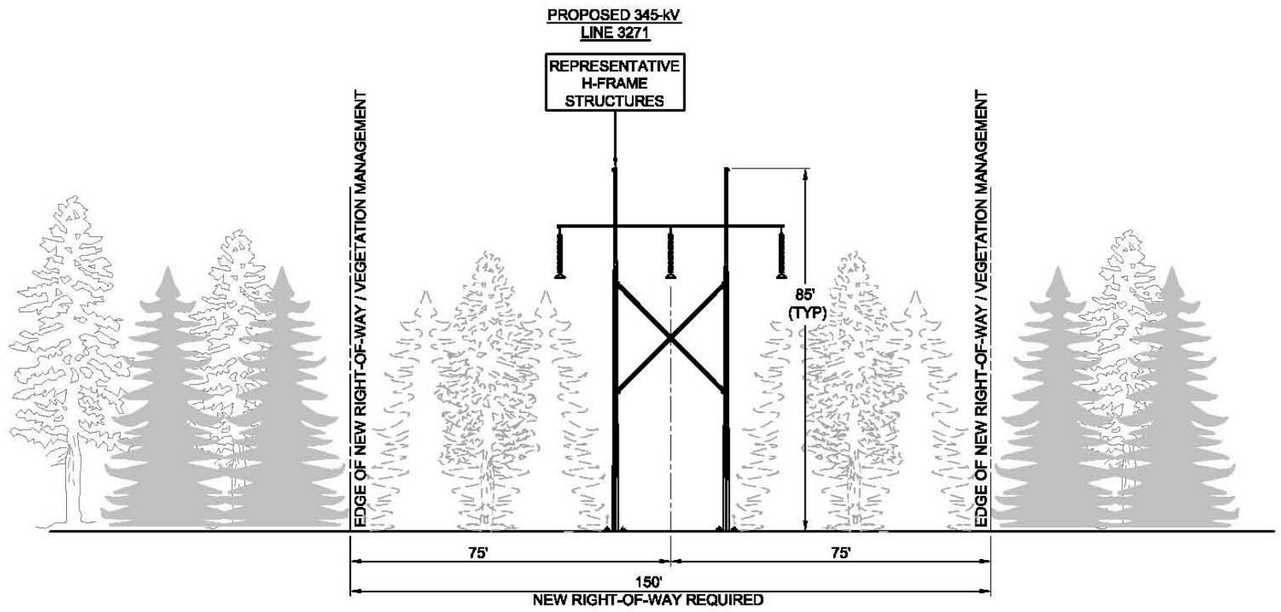
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 3 of 5:

Interstate Reliability Project
Brooklyn Overhead Variation
Darby Road to Spaulding Road
Towns of Brooklyn and Pomfret, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- CT Protected Open Space - Wolf Den Land Trust, White Brook Property, The Learning Clinic, privately managed

Zoning
- Town of Brooklyn
  - Current:
    - Residential Agricultural (RA)
    - Residence 30 Zone (R-30)
- Town of Pomfret
  - Current:
    - Rural Residential (RR)

Natural Systems
- White Brook and its associated tributaries
- Open water (ponds)
- Cooney Ledge Brook and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age

Visual Character
- Residential, agricultural, and forest

VARIATION DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to or within variation ROW

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W24-1, W24-2
- Wetland Cover Type: Palustrine Forested Wetland (PFO)
- Stream No.: S24-1 (White Brook)

Potential Access
- Structures could be accessed from Spaulding Road

Vegetation
- Upland and wetland forest

Terrain
- Hilly

Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- Spaulding Road

Cooney Ledge Brook

Match Line Maps 3 and 4 of 5

RR

POMFRET

BROOKLYN

PFO

W24-2

SPAULDING RD

UF

HY

POMFRET LANDING RD

HY

The Learning Clinic

The Learning Clinic

Brooklyn Overhead Variation

RA

BARRETT HILL RD

HUGHJOR

R 30

White Brook

S24-1

Match Line Maps 2 and 3 of 5

PFO

UF

W24-1

UF

DARBY RD

Wolf Den Land Trust (White Brook Sanctuary)

PEM

Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- Connecticut Natural Diversity Data Base Area
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

R80 Zoning Designation

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Brooklyn Overhead Variation

Mapsheet 3 of 5

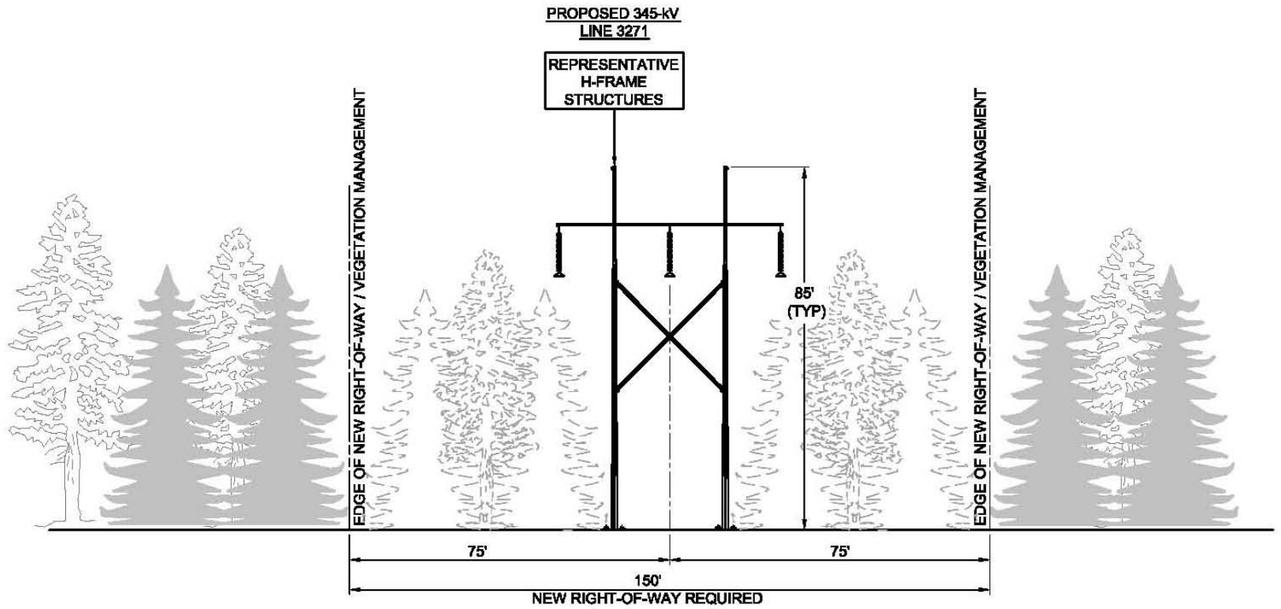
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 4 of 5:

Interstate Reliability Project
Brooklyn Overhead Variation
Spaulding Road to East of Searles Road
Towns of Brooklyn and Pomfret, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential

Zoning
- Town of Brooklyn
  - Current:
    - Residential Agricultural (RA)
- Town of Pomfret
  - Current:
    - Rural Residential (RR)
    - Commercial/Business (CB)

Natural Systems
- Cooney Ledge Brook and its associated tributaries
- Barrett Ledge Brook and its associated tributaries
- Open water (ponds)
- White Brook and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- 100-year flood zone (White Brook and Barret Ledge Brook)

Visual Character
- Residential, agricultural, and forest

VARIATION DESCRIPTION

Land Use
- Residential near Searles Road
- Upland and/or wetland forest adjacent to and within variation ROW

Wetlands, Watercourses and Waterbodies
- Wetland Nos: W24-2, W24-3, W24-4, W24-5, W24-6
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Palustrine Scrub-Shrub Wetland (PSS), Palustrine Emergent Marsh (PEM)
- Stream Nos.: S24-2 (Barrett Ledge Brook), S24-3 (White Brook)

Potential Access
- Structures could be accessed from Searles Road

Vegetation
- Open field-shrub, upland and wetland forest

Terrain
- Hilly to broad hill tops

Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- Searles Road

Barrett Ledge Brook
COONEY RD
SEARLES RD
Barrett Ledge Brook
S24-2
W24-3
PFO
OFS
S24-3
PEM
PSS
W24-5
UF
Match Line Maps 4 and 5 of 5
PFO
W24-6
CB
Cooney Ledge Brook
W24-4
PSS
HY
RR
White Brook
Brooklyn Overhead Variation
UF
SEARLES RD
Match Line Maps 3 and 4 of 5
PFO
W24-2
POMFRET
BROOKLYN
RA

Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- Connecticut Natural Diversity Data Base Area
- 100-Year Flood Zone
- Wetland Boundary (W20-1)
- Watercourse (S20-68)
- 345-kV OH Variation
- Municipal/Private Park or Open Space

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

R80 Zoning Designation

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

Interstate Reliability Project

Brooklyn Overhead Variation

Mapsheet 4 of 5

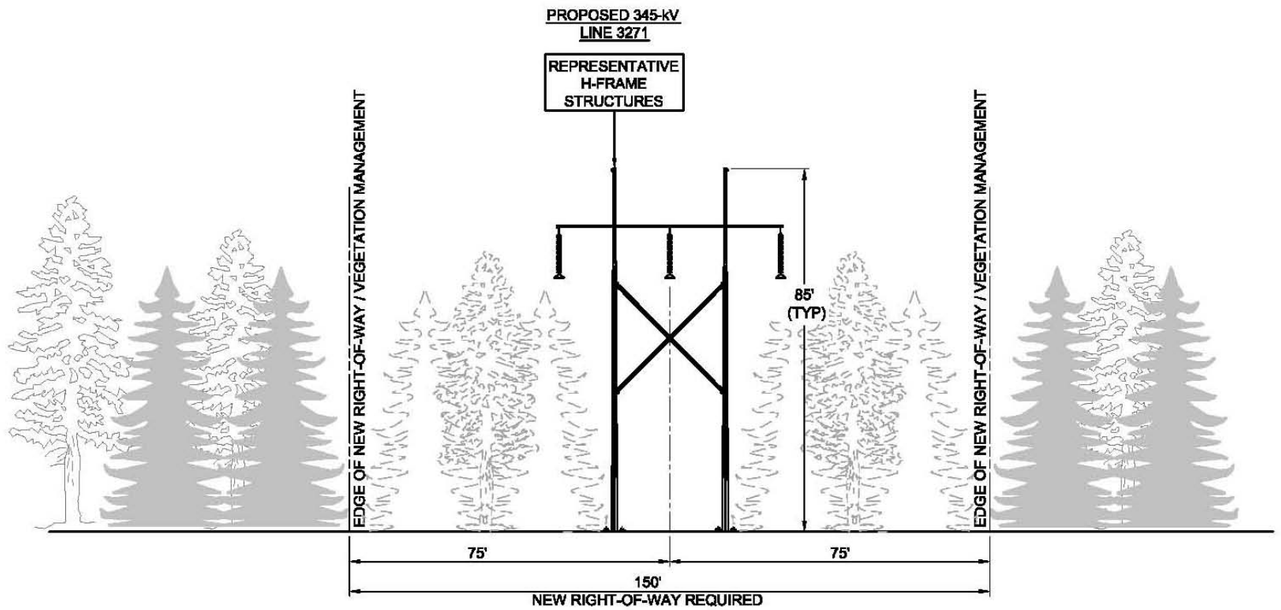
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 05 of 05:

Interstate Reliability Project
Brooklyn Overhead Variation
East of Searles Road to Existing Overhead ROW (Near Existing Structure 9230)
Town of Pomfret, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- Commercial/Industrial

Zoning
- Town of Pomfret
  - Current:
    - Rural Residential (RR)
    - Commercial/Business (CB)
- Town of Killingly
  - Current:
    - Medium Density (MD)
    - Low Density (LD)
    - Industrial (I)

Natural Systems
- White Brook and its associated tributaries
- Quinebaug River and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- Natural Diversity Data Base Area

Visual Character
- Residential, forest, agricultural, and commercial/industrial

VARIATION DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to and within variation ROW
- Agricultural adjacent to and within variation ROW

Wetlands, Watercourses and Waterbodies
- Wetland No.: W24-6
- Wetland Cover Type: Palustrine Forested Wetland (PFO)

Potential Access
- Structures could be accessed from Searles Road (see Mapsheet 4 of 5)

Vegetation
- Upland and wetland forest, agricultural

Terrain
- Hilly

Existing Right-of-Way Width
- 0 feet

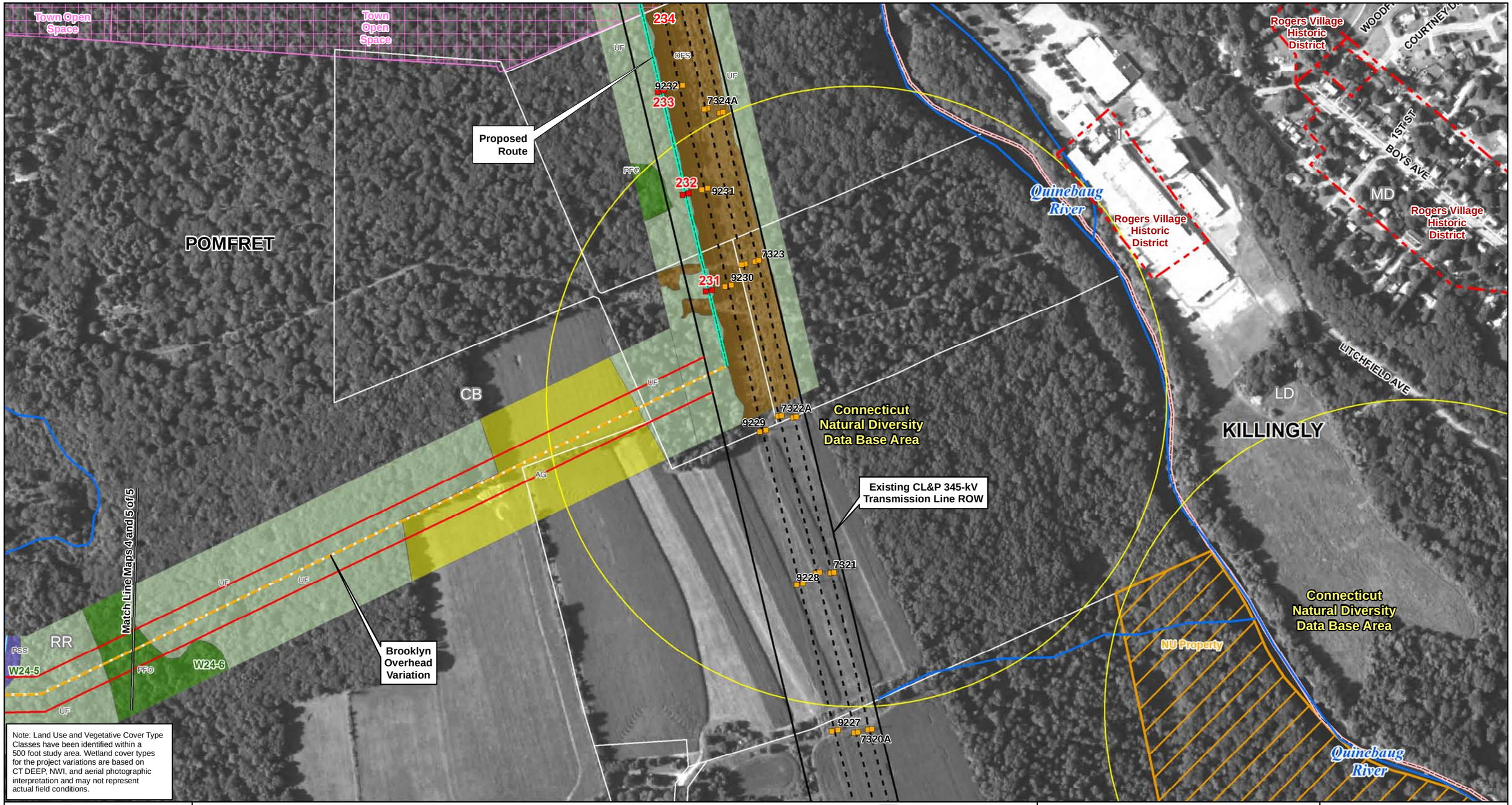
Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

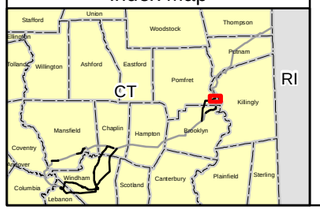
Managed Right-of-Way Width Required
- 150 feet

Road Crossing/Major Utility Crossings
- None

Note: This line-route variation would connect to the Proposed Route near existing structure 9230. Refer to Ex. 2, Mapsheet 23 of 40 for information regarding the Proposed Route in this area.



Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- Connecticut Natural Diversity Data Base Area
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)
- R80 Zoning Designation

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Brooklyn Overhead Variation

Mapsheet 5 of 5

Connecticut Light & Power
A Northeast Utilities Company

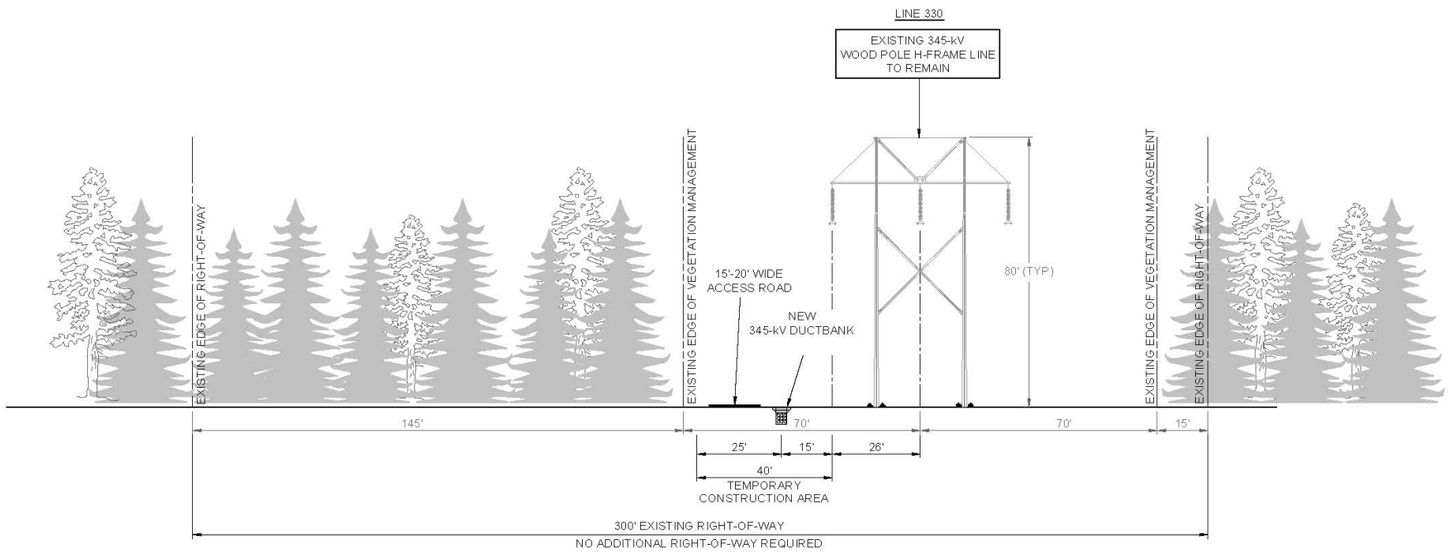
AECOM

Date: December 2011

Brooklyn Underground Variation

MAPSHEET 1 of 2:

Interstate Reliability Project
Brooklyn Underground Variation
Existing Structure Locations 9208 to 9218
Town of Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Connecticut (CT) Protected/Open Space (Wolf Den Land Trust White Brook Property, privately managed, Brooklyn Tennis Club privately managed)
- Residential day care

Zoning
- Town of Brooklyn
  - Current:
    - Residence 30 Zone (R-30)
    - Residential Agriculture (RA)
- Town of Killingly:
  - Current:
    - Light Density (LD)

Natural Systems
- White Brook and its associated tributaries
- Creamery Brook and its associated tributaries
- Open water (ponds)
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- 100-year flood zone (White Brook, Creamery Brook)

Visual Character
- Forest, residential, and agricultural

VARIATION DESCRIPTION

Adjacent Land Use
- Residential
- Agricultural
- Upland and wetland forest
- CT Protected/Open Space - Wolf Den Land Trust

Wetlands, Watercourses and Waterways
- Wetland Nos.: W20-156, W20-157, W20-158, W20-159
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Palustrine Emergent Wetland (PEM), Open Water (OW)
- Stream Nos.: S20-49, S20-50/51 (White Brook), S20-52 (Creamery Brook)

Vegetation
- Open field-shrub, upland and wetland forest, house/yard, agricultural

Terrain
- Hilly

Existing Right-of-Way Width
- 300 feet

Existing Managed Right-of-Way Width
- 140 to 300 feet

Additional Managed Right-of-Way Width Required
- 0 (cable duct bank) to 40 feet (splice vaults not shown on cross section)

Additional Land Acquisition Required
- Up to 4 acres private property for one line transition station

Road / Major Utility Crossings
- Church Street, two lanes (crosses)

Note: Overhead route description and cross-sections can be found in Ex. 2 on Mapsheets 23 and 24 of 40, Interstate Reliability Project, Proposed Route.

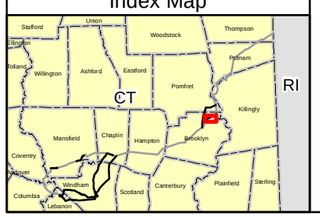
Match Line Maps 1 and 2 of 2

HUGH DR
DARBY RD
White Brook
DARBY RD
DARBY RD
CHURCH ST
Residential day care
NU Property
NU Property
R 30
DAY ST
Wolf Den Land Trust (White Brook Sanctuary)
Potential Line Transition Station Site
Creamery Brook
Brooklyn Tennis Club
RA
CHURCH ST
Brooklyn Underground Variation (Start)
White Brook
Creamery Brook
Steven Townsend Trust
Colonel Daniel Putnam Association, Inc.

9207 9208 9209 9210 9211 9212 9213 9214 9215 9216 9217 9218
208
W20-155 W20-156 W20-157 W20-158 W20-159
S20-49A S20-49B S20-50 S20-51 S20-52

HY UF OFS AG PFO PSS PEM OW

Index Map



Right-of-Way (Existing)
Proposed 345-kV Line (Centerline)
Existing Transmission Line (Centerline)
Existing Structure **(9001)**
Existing Structure (Guyed)
Proposed Structure **(1)**
Proposed Structure (Guyed)
Municipal/Private Park or Open Space

Property Line
Town/State Boundary
Potential Access Road
Northeast Utilities Property
Historic District
State Forest or Park
Wildlife Area or Sanctuary

100-Year Flood Zone
Wetland Boundary **(W20-1)**
Watercourse **(S20-68)**
Potential Line Transition Station
Variations Centerline_ROUTE
Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

Emergent Wetland (PEM)
Forested Wetland (PFO)
Scrub - Shrub Wetland (PSS)
Open Field-Shrub Land (OFS)
Commercial/Industrial (CI)
R80 Zoning Designation
Agricultural (AG)
Other (OT)
Open Water (OW)
House/Yard (HY)
Upland Forest (UF)
State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Brooklyn Underground Variation

Mapsheet 1 of 2

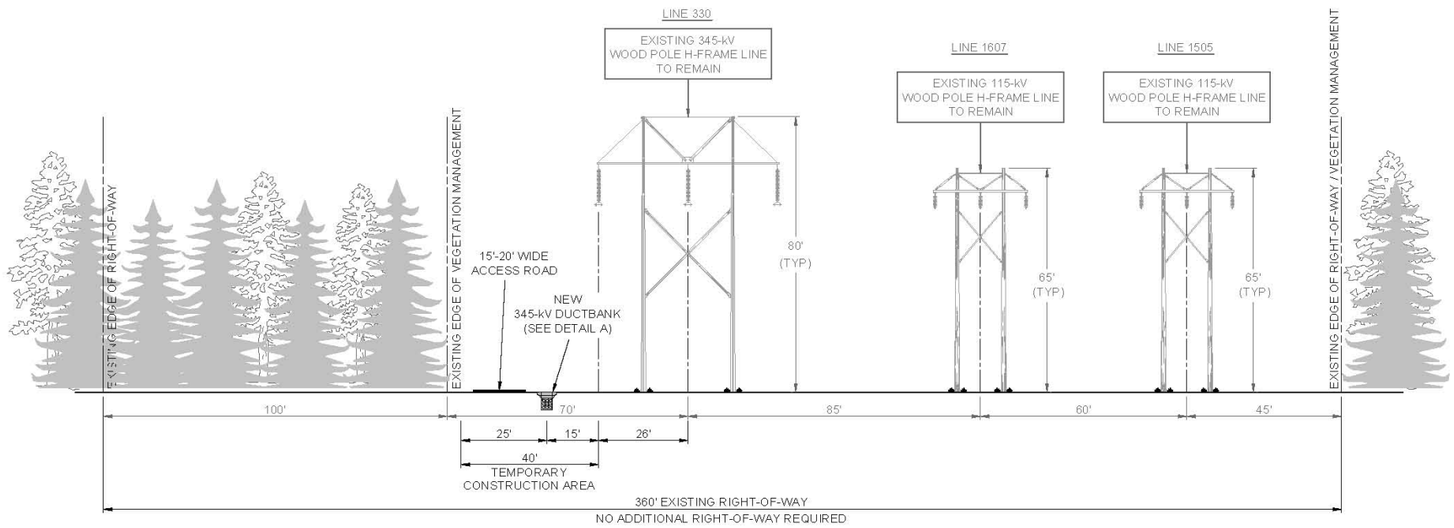
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 2 of 2:

Interstate Reliability Project
Brooklyn Underground Variation
Existing Structure Locations 9219 to 9221
Town of Brooklyn, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Residential day care
- Danielson Airport

Zoning
- Town of Brooklyn
  - Current:
    - Residence 30 Zone (R-30)
    - Residential Agriculture (RA)
- Town of Killingly:
  - Current:
    - Light Density (LD)

Natural Systems
- Quinebaug River and its associated tributaries
- Open water (ponds)
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Mixed hardwood forest of varying size and age

Visual Character
- Forest, residential, and agricultural

VARIATION DESCRIPTION

Land Use
- Residential
- Agricultural

Wetlands, Watercourses and Waterways
- Wetland Nos.: W20-159A, W20-160
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream No.: S20-53, S20-54A

Vegetation
- Open field-shrub, upland and wetland forest, house/yard, agriculture

Terrain
- Hilly

Existing Right-of-Way Width
- 300 feet

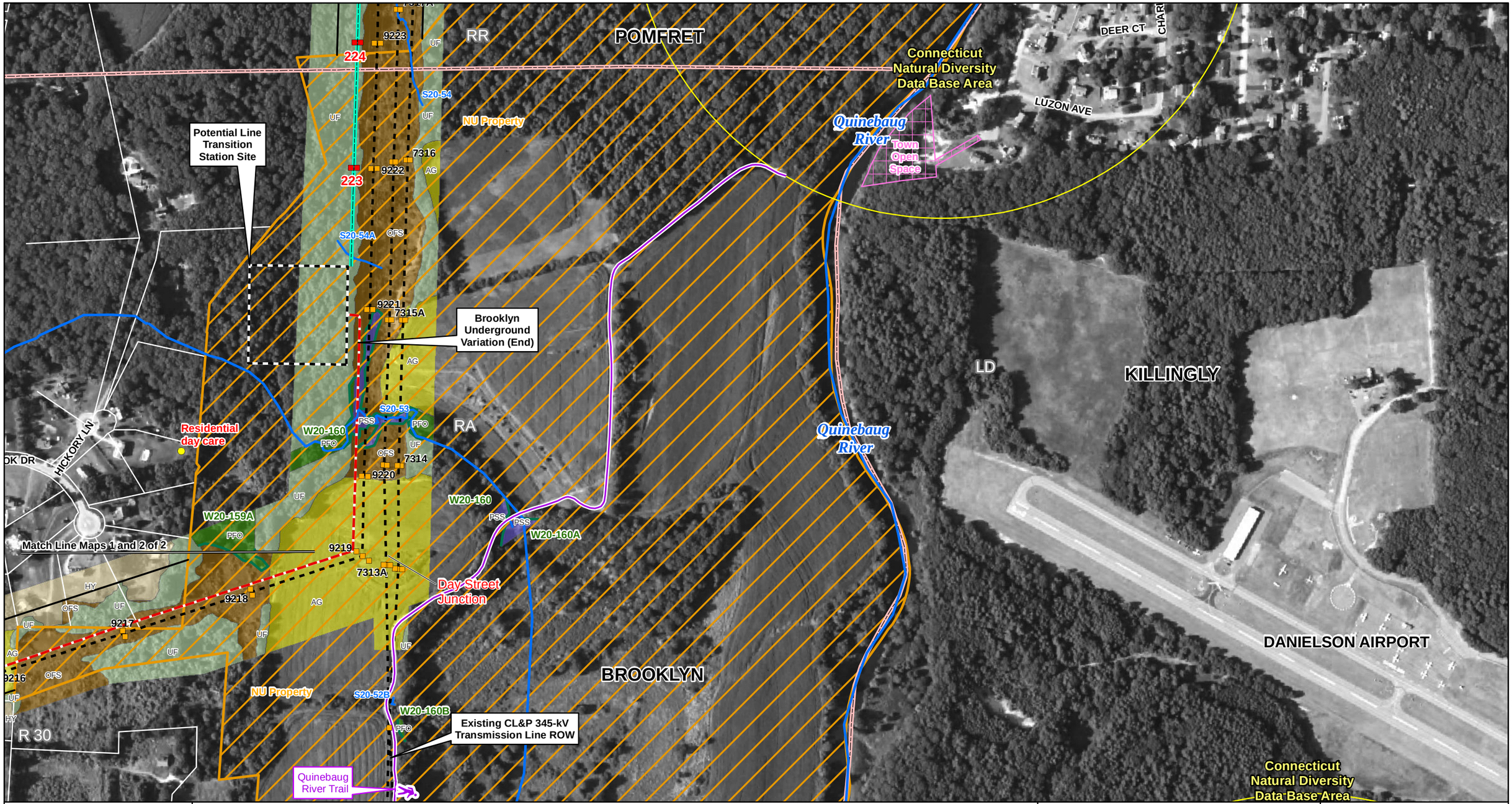
Existing Managed Right-of-Way Width
- 140 to 300 feet

Additional Managed Right-of-Way Width Required
- 0 (cable duct bank) to 40 feet (splice vaults not shown on cross-section)

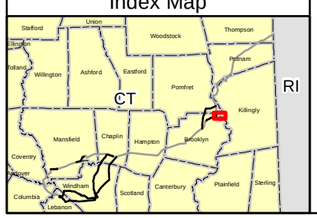
Additional Land Acquisition Required
- 0 private property for line transition station (on NU property)

Road / Major Utility Crossings
- None

Note: Overhead route description and cross-sections can be found on Mapsheets 23 and 24 of 40, Interstate Reliability Project, Proposed Route.



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Property Line
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- Variations Centerline_ROUTE
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

R80 Zoning Designation

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009.

Interstate Reliability Project

Brooklyn Underground Variation

Mapsheet 2 of 2

Connecticut Light & Power
A Northeast Utilities Company

AECOM

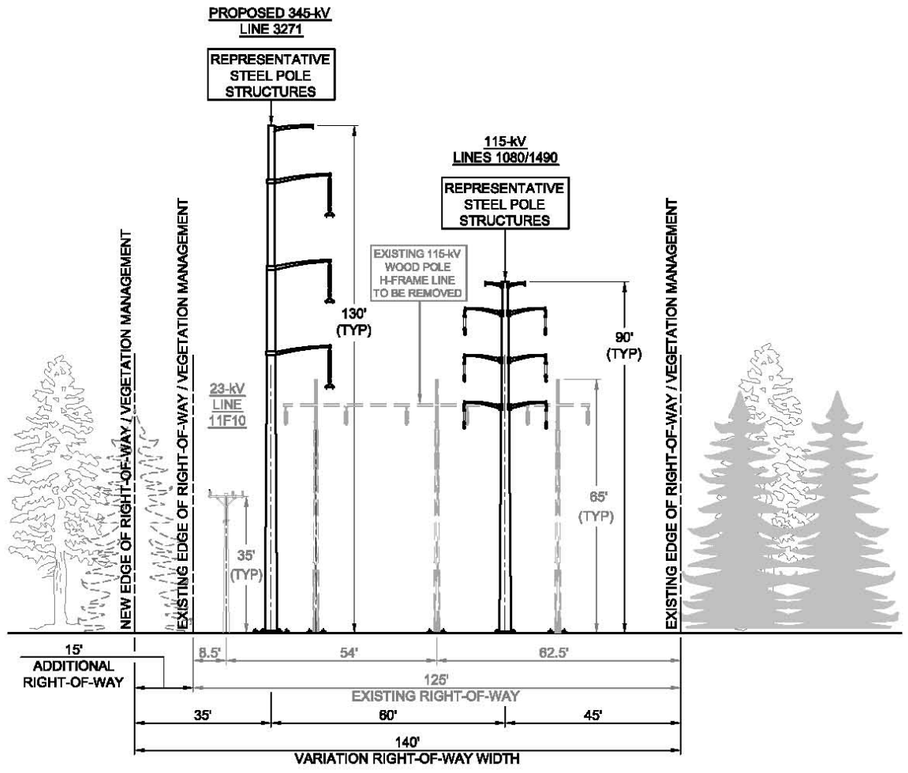
Date: December 2011

Willimantic South Overhead Variation

MAPSHEET 1 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
Card Street Substation to Beaumont Highway
Town of Lebanon, CT

Note: This cross-section (XS-WS-OH-1) applies to the 0.2-mile segment between Card Street Substation and Card Street. See cross-section (XS-WS-OH-2) in Volume 1A, Section 15, Appendix 15B for transmission line and ROW configuration between Card Street and Beaumont Highway.



AREA DESCRIPTION

Existing Land Use
- Commercial/Industrial
- Residential
- Connecticut (CT) Protected/Open Space (Pomeroy State Park Scenic Reserve managed by the Connecticut Department of Environmental Protection (CT DEEP))

Zoning
- Town of Lebanon
  - Current:
    - Residential Agricultural (RA)
  - Planned:
    - Rural Residential (RR)
    - Open Space (OS)
- Town of Windham
  - Current:
    - Residential (R-2, R-4)

Natural Systems
- Jordan Brook, open water (ponds)
- State/Federal jurisdictional wetlands
- Intermittent tributaries of the Ten Mile and Willimantic Rivers
- Mixed hardwood forest of varying size and age

Visual Character
- Forest, residential, and commercial/industrial

VARIATION DESCRIPTION

Land Use
- Commercial/Industrial (Card Street Substation)
- Residential adjacent to existing structures
- CT Protected/Open Space (Pomeroy State Park Scenic Reserve)
- Upland and/or wetland forest adjacent to existing line structures

Wetlands, Watercourses and Waterbodies
- Wetland Nos: W21-14, W21-16, W22-1, W23-1Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)

Potential Access
- Structures could be accessed from either Card Street or Beaumont Highway

Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Hilly

Existing Right-of-Way Width
- 125 feet (existing CL&P ROW)

Right-of-Way Width Required
- 140 feet (15 feet in addition to existing 125-foot-wide ROW)

Existing Managed Right-of-Way Width
- 125 feet

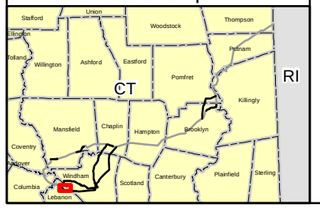
Additional Managed Right-of-Way Width Required
- 15 feet

Road Crossing/Major Utility Crossings
- Card Street

Note: The portions of the Proposed Route that this line-route variation would replace are illustrated in Ex. 2, Mapsheets 1 to 12 of 40, Interstate Reliability Project, Proposed Route.



Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)
- R80 Zoning Designation

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 1 of 11

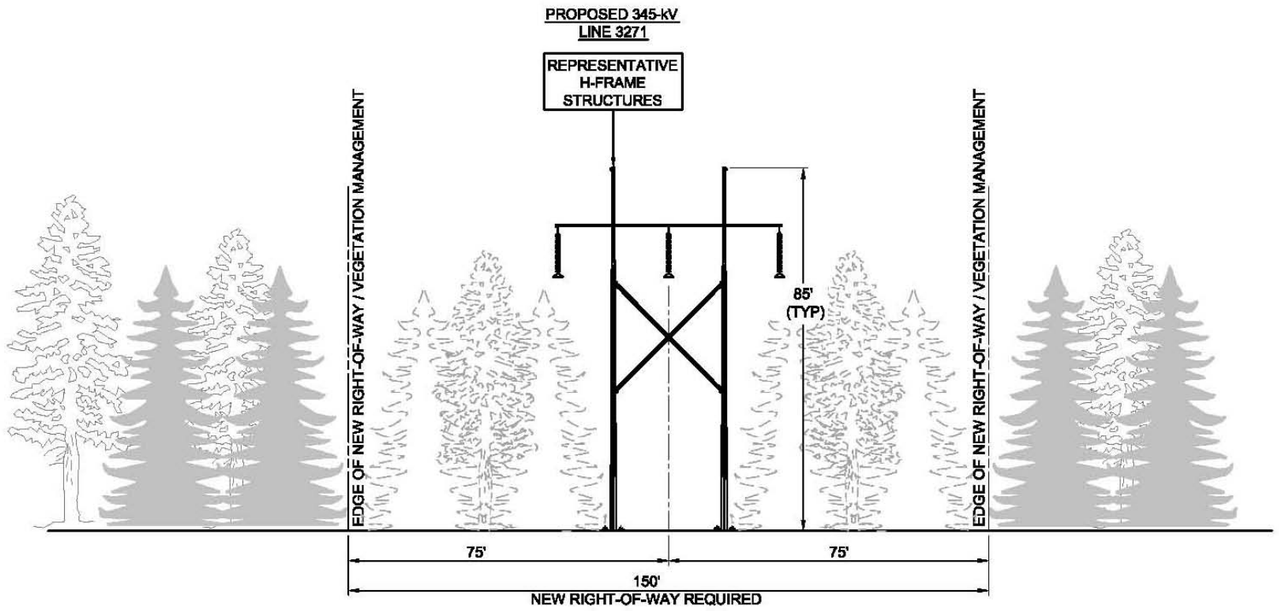
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 2 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
Beaumont Highway to Gates Road
Towns of Lebanon and Windham, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Pomeroy State Park Scenic Reserve managed by the CT DEEP)

Zoning
- Town of Lebanon
  - Current:
    - Residential Agricultural (RA)
  - Planned:
    - Rural Residential (RR)
    - Open Space (OS)
- Town of Windham
  - Current:
    - Residential (R-1, R-2, R-4)

Natural Systems
- Open water (ponds)
- Jordan Brook and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- 100-year flood zone - Jordan Brook

Visual Character
- Forest, agricultural, and residential

VARIATION DESCRIPTION

Land Use
- Residential adjacent to variation ROW
- CT Protected/Open Space adjacent to and within variation ROW (Pomeroy State Park Scenic Preserve)
- Upland and/or wetland forest

Wetlands, Watercourses and Waterbodies
- Wetland Nos: W23-1, W23-2, W23-3, W23-4, W23-5
- Wetland Cover Types: Palustrine Scrub-Shrub Wetlands (PSS), Palustrine Forested Wetlands (PFO), Open Water (OW)
- Stream Nos.: S23-1 (Jordan Brook), S23-2

Potential Access
- Structures could be accessed from Card Street, Beaumont Highway, or Gates Road/South Street

Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Floodplains and hills

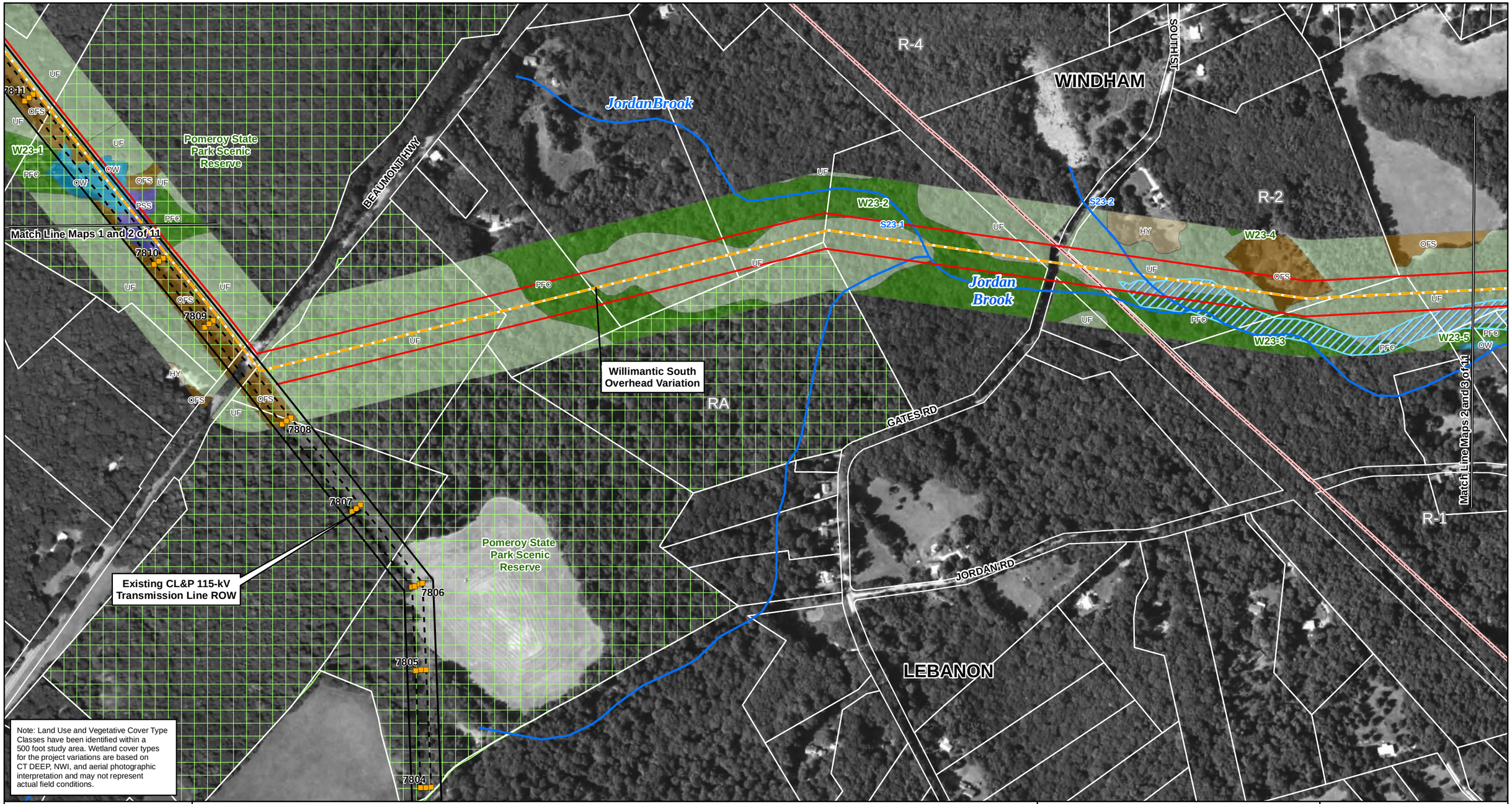
Existing Right-of-Way Width
- 125 feet (existing CL&P ROW); 0 feet (new ROW east of Beaumont Highway)

Right-of-Way Width Required
- 140 to150 feet (15 feet additional width along existing ROW; 150 feet along new ROW)

Existing Managed Right-of-Way Width
- 0 to 125 feet

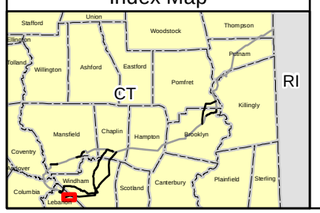
Additional Managed Right-of-Way Width Required
- 15 to 150 feet

Road Crossings/Major Utility Crossings
- Beaumont Highway
- Gates Road/South Street



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

R80 Zoning Designation

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 2 of 11

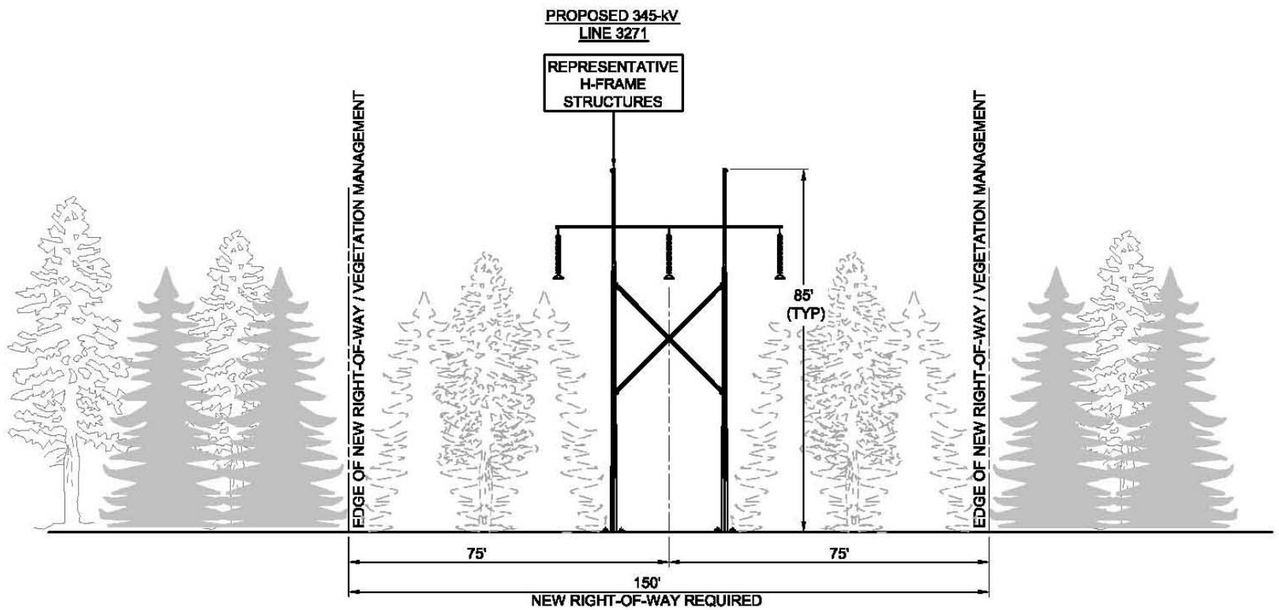
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 3 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
Jordan Road to South Windham Road
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Commercial/Industrial
- Agricultural
- CT Protected/Open Space (Willimantic Camp Meeting Association privately managed, and Shetucket River Water Access managed by the CT DEEP)

Zoning
- Town of Windham
  - Current:
    - Residential (R-1, R-2, R-3)

Natural Systems
- Open water (ponds)
- Jordan Brook and its associated tributaries
- Shetucket River and its associated tributaries
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Mixed hardwood forest of varying size and age
- 100-year flood zone (Jordan Brook)

Visual Character
- Residential, agricultural, and forest

VARIATION DESCRIPTION

Land Use
- Commercial/Industrial adjacent to and within variation ROW
- Residential adjacent to variation ROW
- Upland and/or wetland forest adjacent to and within variation ROW

Wetlands, Watercourses and Waterbodies
- Wetland Nos: W23-5, W23-6
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW), Palustrine Emergent Wetland (PEM)
- Stream Nos.: S23-3, S23-4, S23-5, S23-6 (all tributaries of Jordan Brook)

Potential Access
- Structures could be accessed from either Jordan Road or Windham Road

Vegetation
- Open field-shrub, upland and/or wetland forest, house/yard

Terrain
- Floodplain and hills

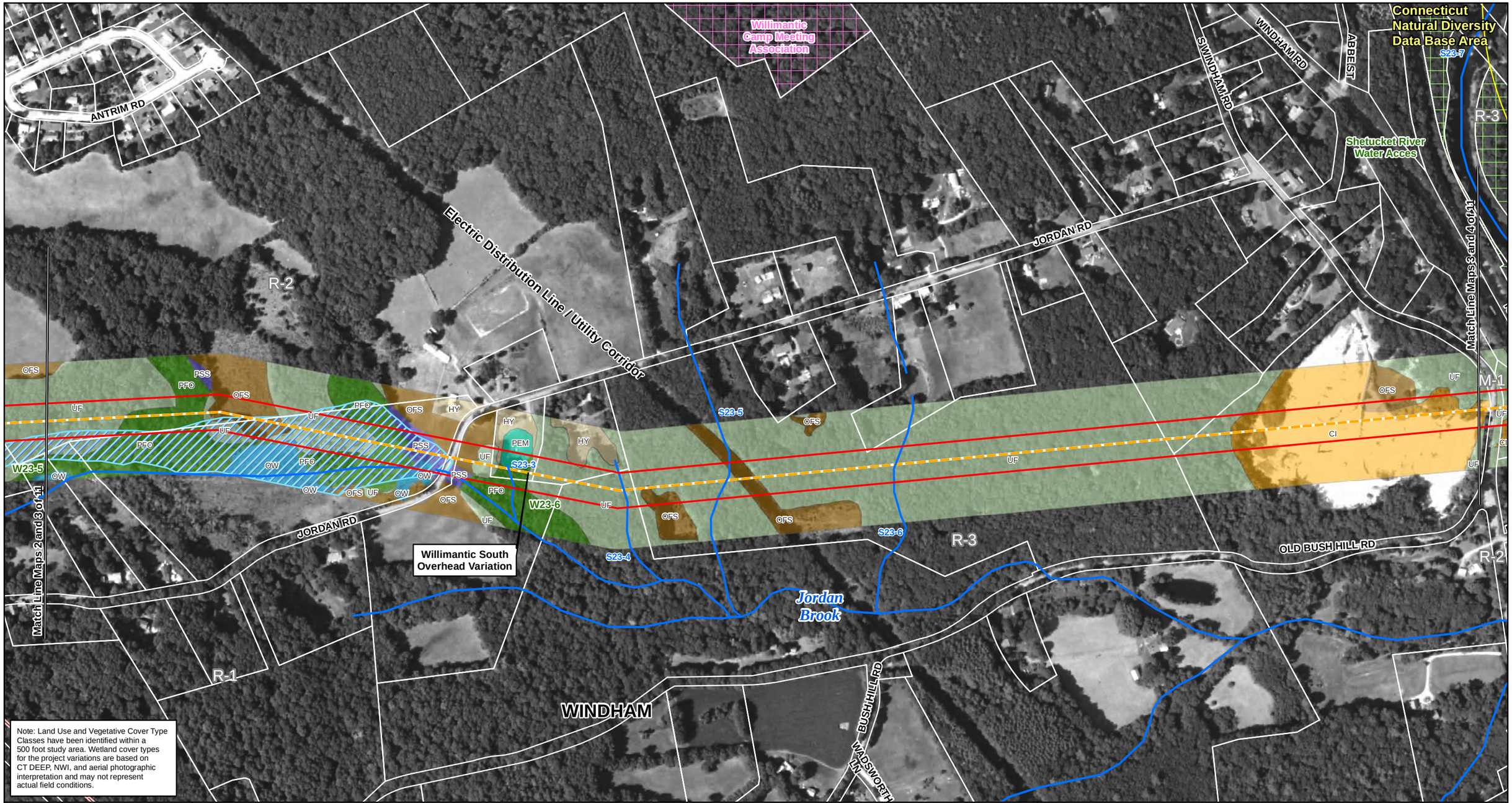
Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- Jordan Road
- South Windham Road
- Pipeline/Utility Corridor



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

R80 Zoning Designation

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

N W E S

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 3 of 11

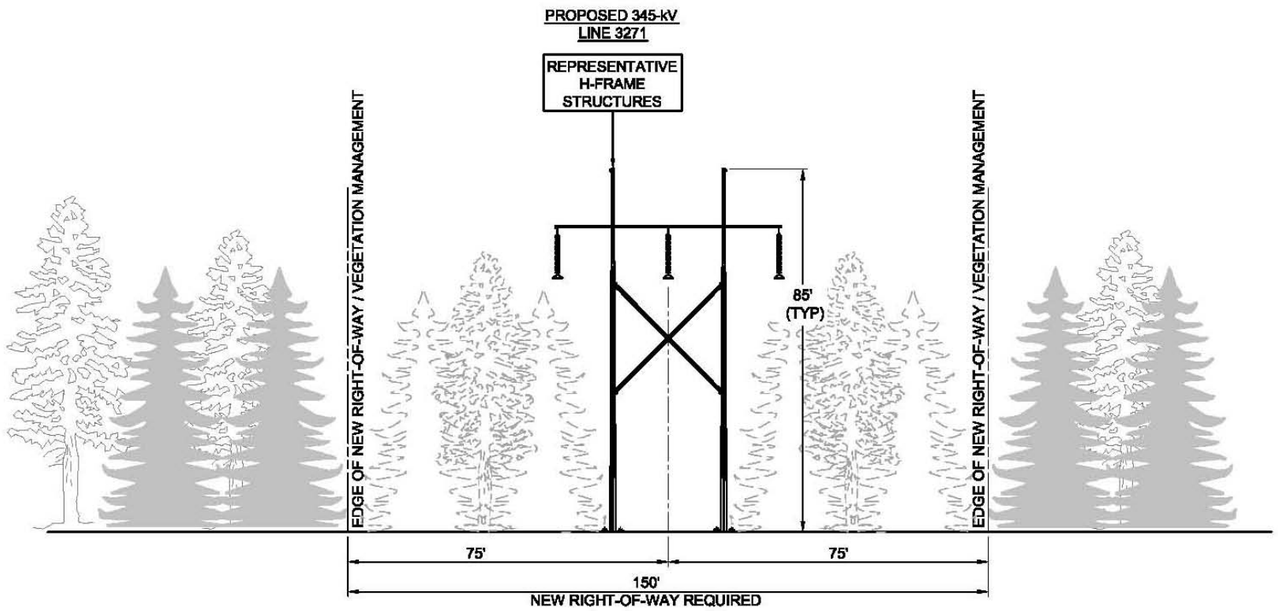
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 4 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
South Windham Road to Plains Road
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Open Space (Shetucket Plains Park off Plains Road) managed by the Town of Windham, and Shetucket River Water Access managed by the CT DEEP)
- Windham Center Historic District
- Windham Center School and playground

Zoning
- Current:
  - Industrial (M-1, M-2)
  - Residential (R-2, R-3)

Natural Systems
- Shetucket River and its associated tributaries
- Potash Brook and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- 100-year flood zone and SCEL (Shetucket River)
- Natural Diversity Data Base Area

Visual Character
- Residential, commercial/industrial, and forest

VARIATION DESCRIPTION

Land Use
- Residential adjacent to Plains Road
- Commercial/industrial adjacent to and within variation ROW
- CT Protected/Open Space adjacent to and within variation ROW (Shetucket River Water Access)
- Upland and/or wetland forest adjacent to and within variation ROW
- Windham Center Historic District

Wetlands, Watercourses and Waterbodies
- Wetland Nos: W23-7, W23-8, W23-9
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Open Water (OW), Palustrine Emergent Wetland (PEM)
- Stream No.: S23-7 (Shetucket River)

Potential Access
- Structures could be accessed from either Windham Road or Plains Road

Vegetation
- Open field-shrub land, upland and wetland forest, house/yard

Terrain
- Hilly and broad hill tops

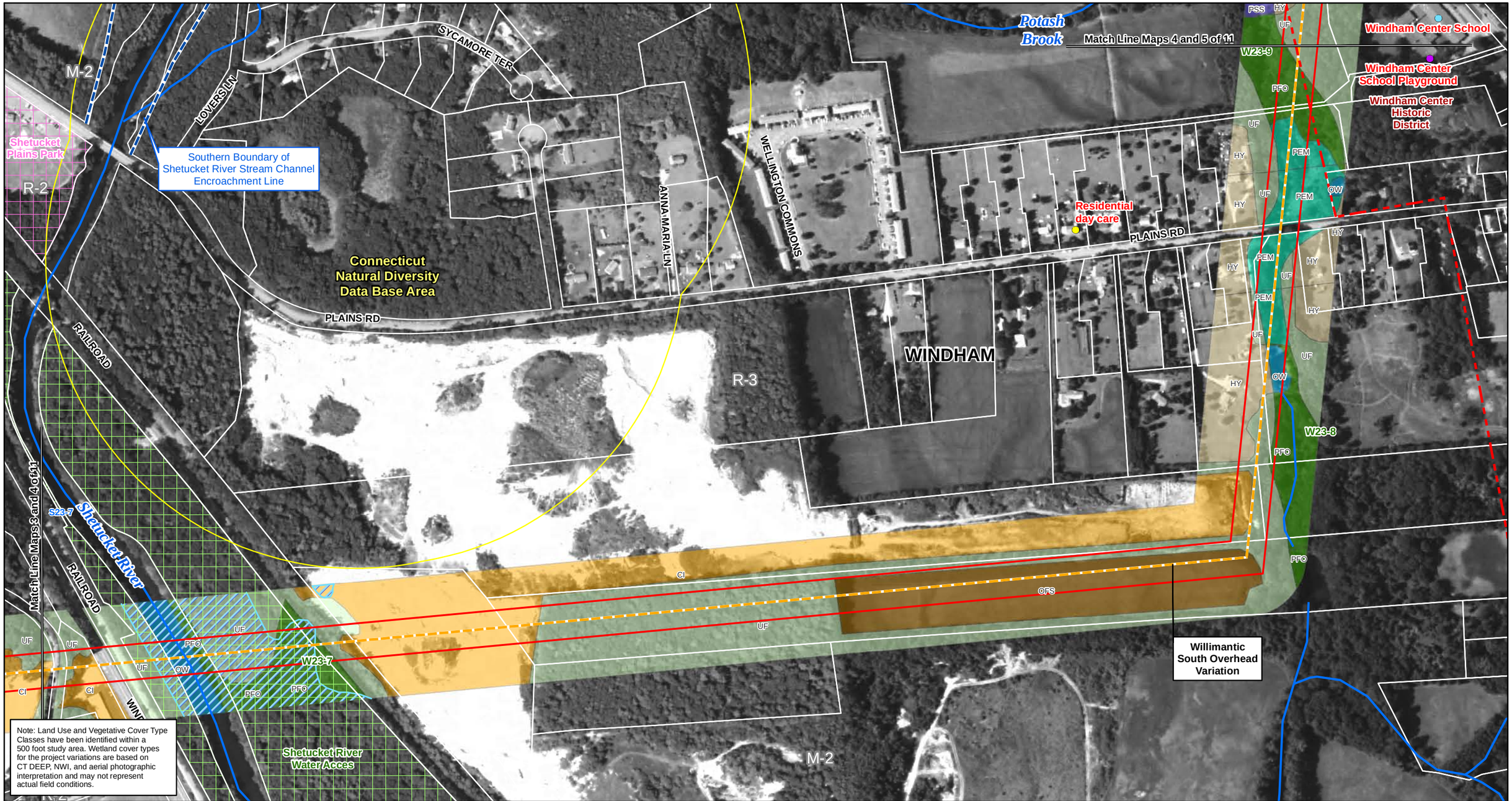
Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way Width
- 0 feet

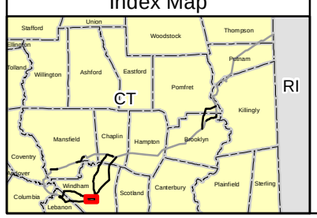
Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- Windham Road
- Plains Road
- Railroads



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- R80 Zoning Designation
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 4 of 11

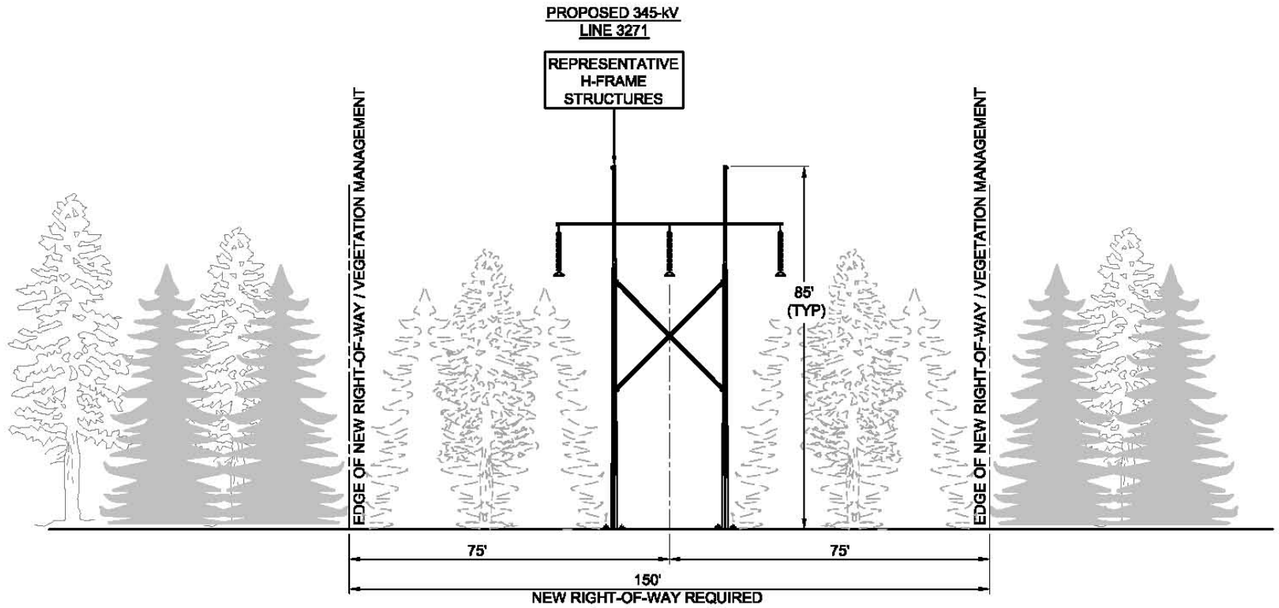
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 5 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
North Road to Ballamahack Road
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- Commercial/Industrial
- Windham Center School and Playground
- Windham Center Historic District

Zoning
- Current:
  - Residential (R-1, R-3)

Natural Systems
- Pottens Brook and its associated tributaries
- Open water (ponds)
- Potash Brook and its associated tributaries
- Wetherbee Pond
- State/Federal jurisdictional wetlands
- Mixed hardwood forest of varying size and age
- Natural Diversity Data Base Area

Visual Character
- Residential, forest, agricultural, and commercial/industrial

VARIATION DESCRIPTION

Land Use
- Residential near North Road
- Upland and/or wetland forest
- Windham Center Historic District

Wetlands, Watercourses and Waterbodies
- Wetland Nos: W23-9, W23-10, W23-11
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Palustrine Emergent Wetland (PEM)
- Stream Nos.: S23-8 Potash Brook)

Potential Access
- Structures could be accessed from North Road

Vegetation
- Open field-shrub, upland and wetland forest, house/yard

Terrain
- Floodplain and hills

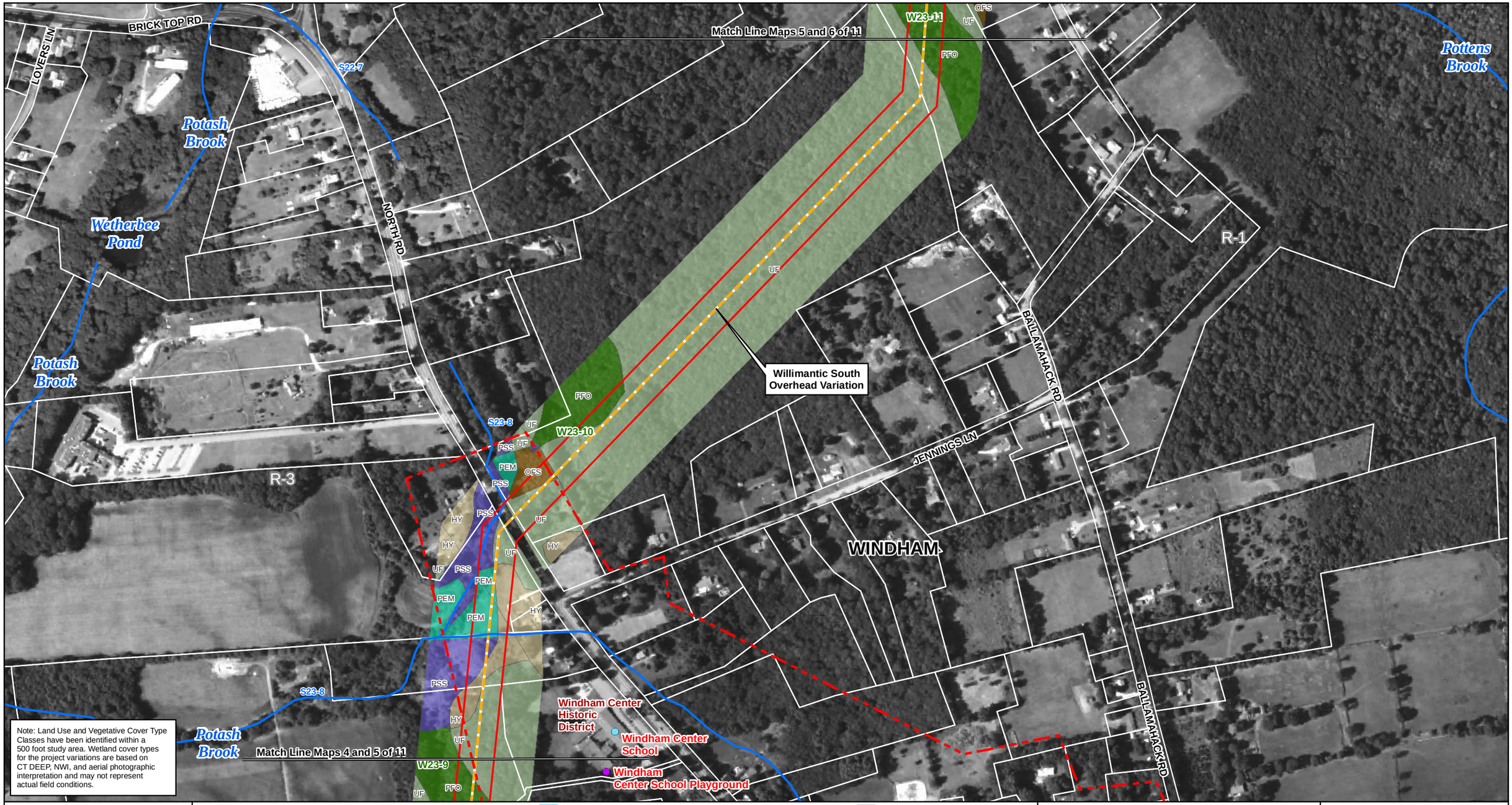
Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- North Road (State Routes 14/203 - State Scenic Road)



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- R80 Zoning Designation
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 5 of 11

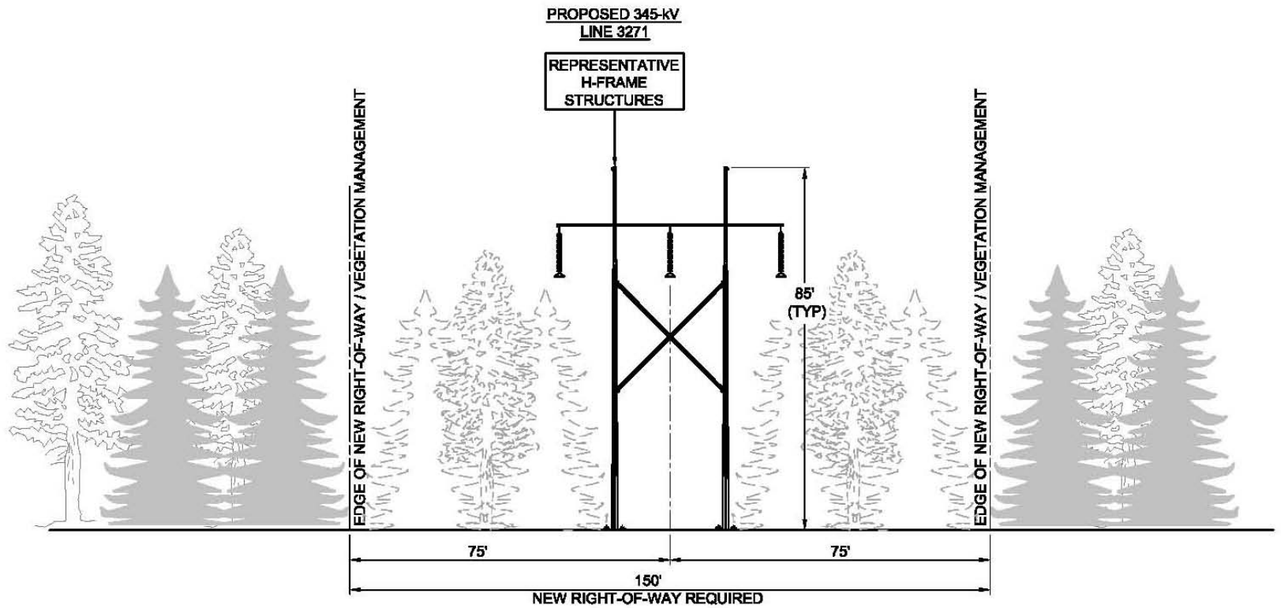
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 6 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
Ballamahack Road to Ballymahack Brook
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Commercial/Industrial

Zoning
- Current:
  - Residential (R-1)

Natural Systems
- Chestnut Hill Brook and its associated tributaries
- Open water (ponds)
- Ballymahack Brook and its associated tributaries
- Pottens Brook and its associated tributaries
- Indian Hill Brook and its associated tributaries
- Lake Marie
- State/Federal jurisdictional wetlands
- Natural Diversity Data Base Area
- Mixed hardwood forest of varying size and age

Visual Character
- Forest, commercial, residential, and agricultural

VARIATION DESCRIPTION

Land Use
- Residential adjacent to variation ROW
- Upland and/or wetland forest adjacent to and within variation ROW

Wetlands, Watercourses and Waterbodies
- Wetland Nos: W23-11, W23-12, W23-13
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S23-9 (Pottens Brook), S23-10 (Chestnut Hill Brook)

Potential Access
- Structures could be accessed from Ballamahack Road

Vegetation
- Open field-shrub, upland and/or wetland forest, agricultural, house/yard

Terrain
- Hilly

Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

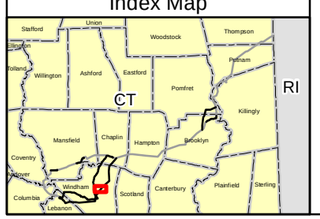
Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- Ballamahack Road



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- R80 Zoning Designation
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 6 of 11

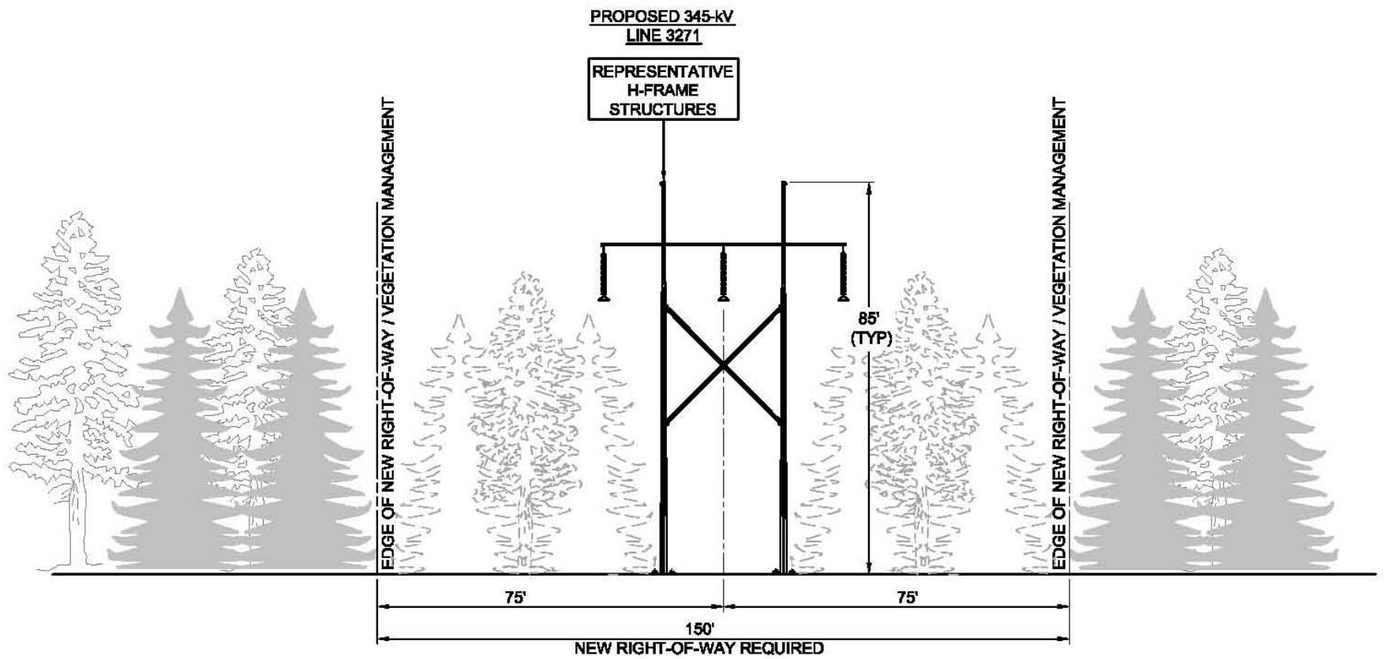
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 7 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
Ballymahack Brook to Beaver Hill Road
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural

Zoning
- Current:
  - Residential (R-1)

Natural Systems
- Ballymahack Brook and its associated tributaries
- Tributary of Beaver Brook
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, agricultural, and forest

VARIATION DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to and within variation ROW

Wetlands, Watercourses and Waterbodies
- Wetland Nos: W23-13, W23-14, W23-15, W23-16, W23-17, W23-18
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream No.: S23-11 (Ballymahack Brook)

Potential Access
- Structures could be accessed from Beaver Hill Road or Ballamahack Road (refer to Mapsheet 6 of 11)

Vegetation
- Upland and wetland forest

Terrain
- Hilly

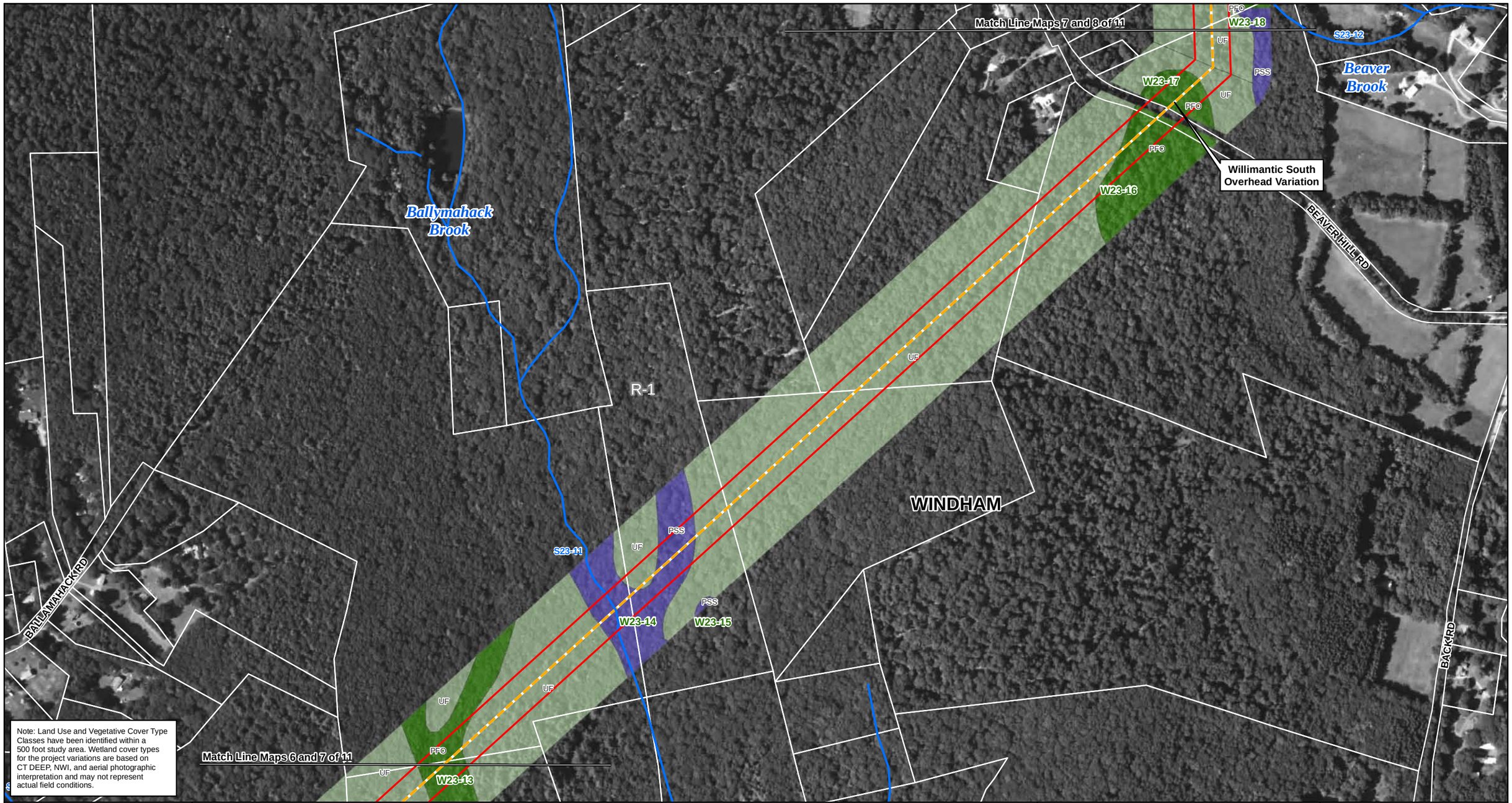
Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way Width
- 0 feet

Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- Beaver Hill Road



Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

R80 Zoning Designation

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

N W E S

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 7 of 11

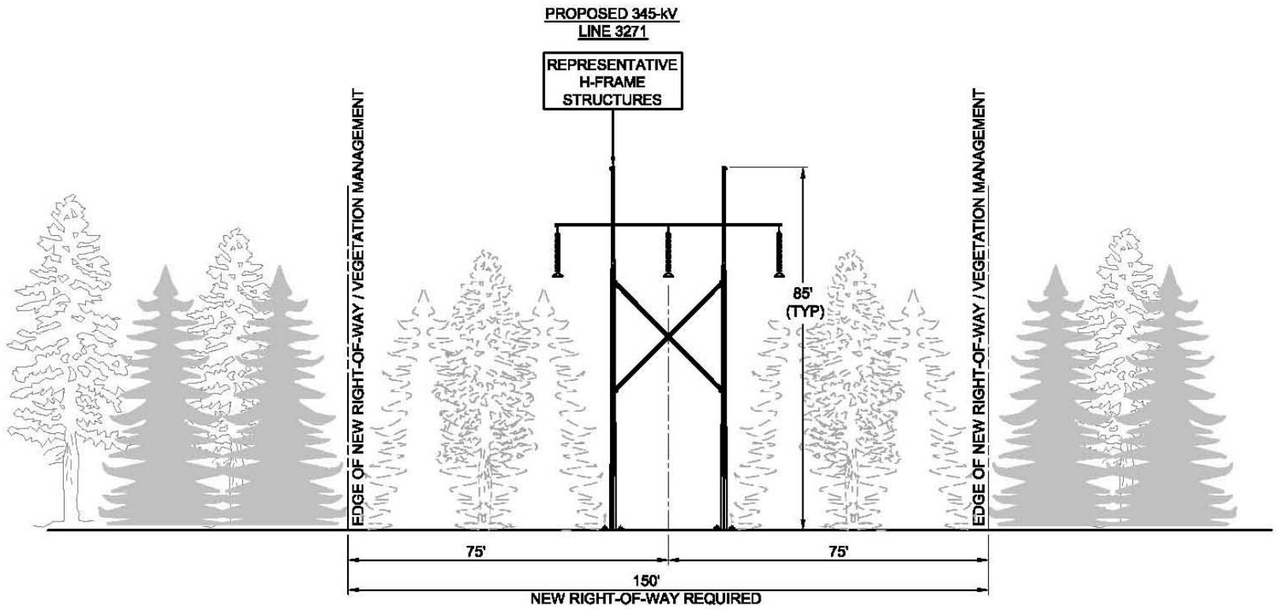
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 8 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
West of Beaver Brook State Park
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- CT Protected/Open Space (Beaver Brook State Park Scenic Reserve managed by the CT DEEP)

Zoning
- Current:
  - Residential (R-1)

Natural Systems
- Ballymahack Brook and its associated tributaries
- Beaver Brook Pond
- Beaver Brook and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, agricultural, and forest

VARIATION DESCRIPTION

Land Use
- Agricultural adjacent to and within variation ROW
- Upland and/or wetland forest adjacent to and within variation ROW

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W23-18, W23-19
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO)
- Stream No.: S23-12 (Beaver Brook)

Potential Access
- Structures could be accessed from Beaver Hill Road (see Mapsheet 7 of 11)

Vegetation
- Upland and/or wetland forest, agricultural

Terrain
- Hilly

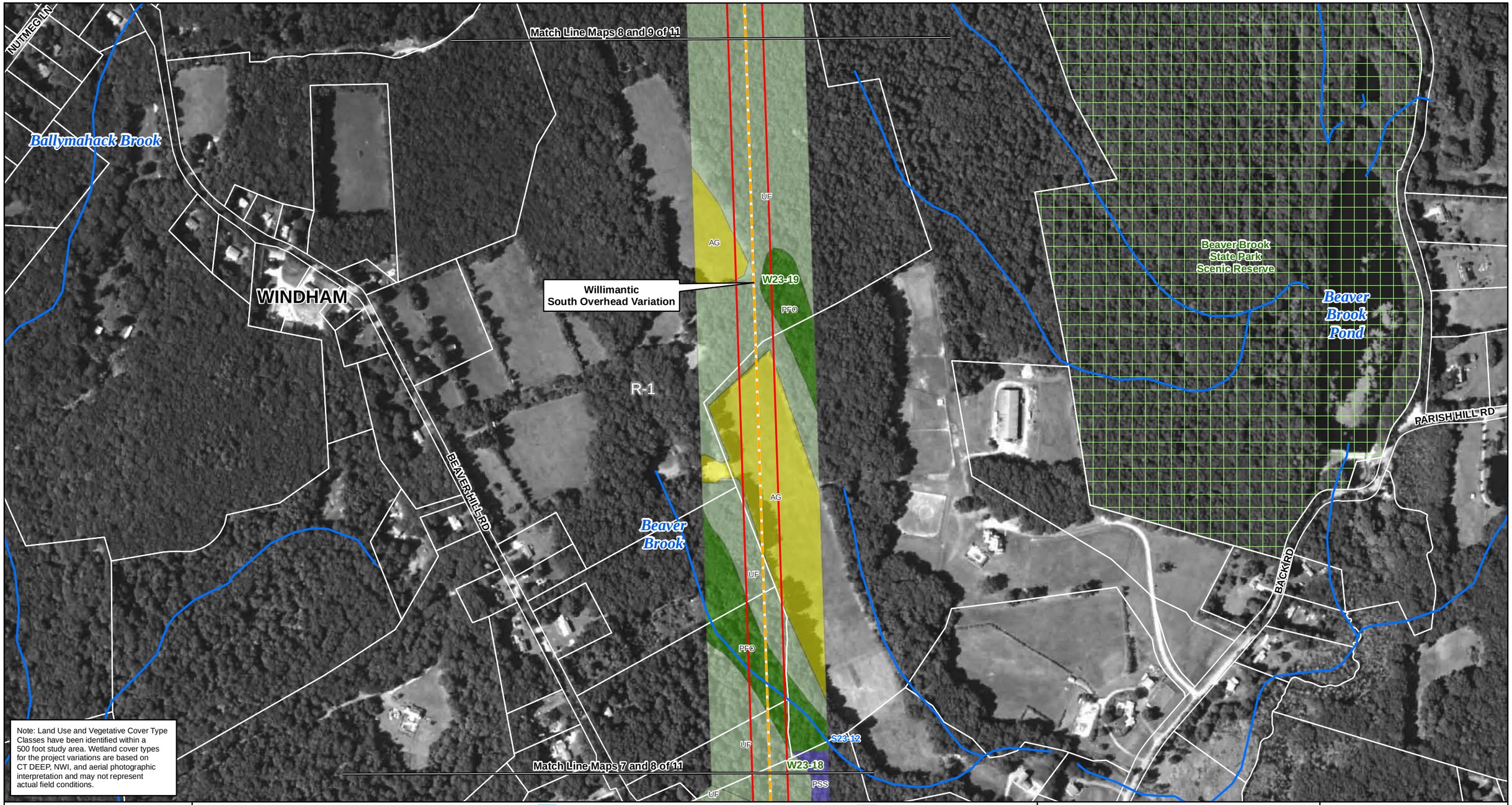
Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

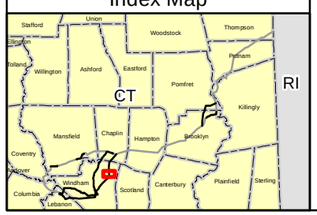
Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- None



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

R80 Zoning Designation

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 8 of 11

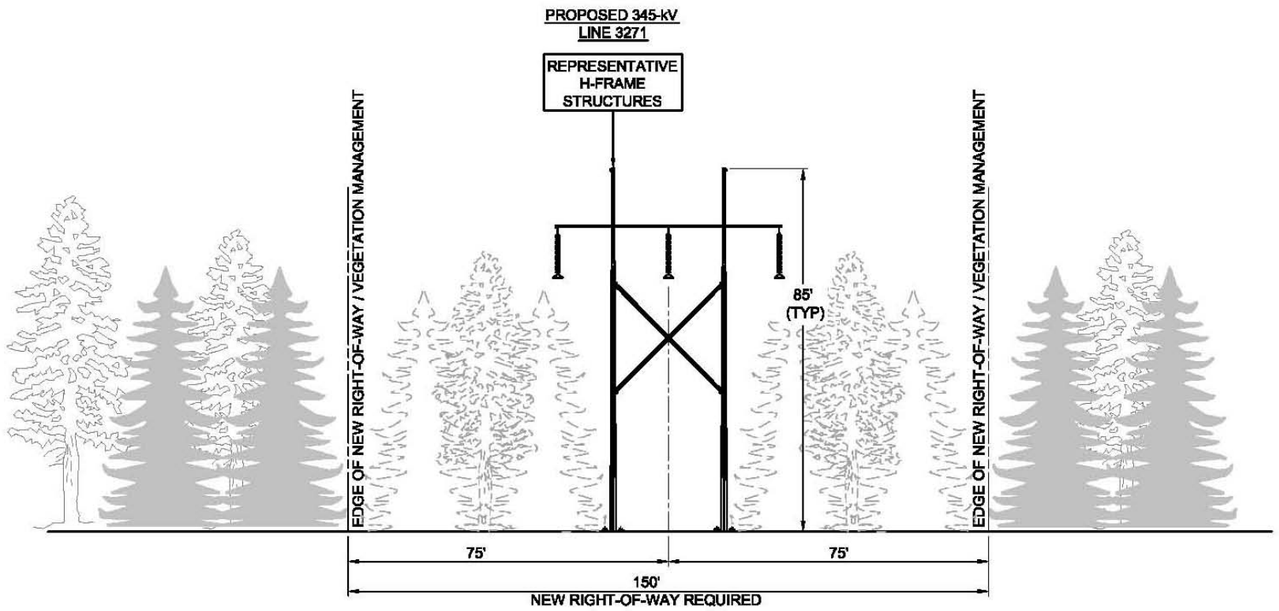
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 9 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
West of Beaver Brook State Park
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- CT Protected/Open Space (Beaver Brook State Park Scenic Reserve managed by the CT DEEP)

Zoning
- Current:
  - Residential (R-1)

Natural Systems
- Ballymahack Brook and its associated tributaries
- Tributaries of Beaver Brook
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, and forest

VARIATION DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to and within variation ROW

Wetlands, Watercourses and Waterbodies
- Wetland No: W23-20
- Wetland Cover Type: Palustrine Forested Wetland (PFO)
- Stream No.: S23-13

Potential Access
- Structures could be accessed from Beaver Hill Road (refer to Mapsheet 7 of 11) or Lynch Road (refer to Mapsheet 11 of 11)

Vegetation
- Upland and wetland forest, house/yard

Terrain
- Hilly

Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- None

Match Line Maps 9 and 10 of 11

UF

S23-13

PFO

W23-20

WINDHAM

R-1

BELLA VISTA DR

BACK RD

UF

HY

Beaver Brook
State Park
Scenic Reserve

Willimantic South
Overhead Variation

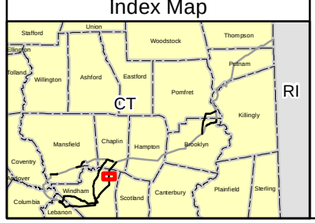
BEAVER HILL RD

Ballymahack Brook

Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Match Line Maps 8 and 9 of 11

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- R80 Zoning Designation
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 9 of 11

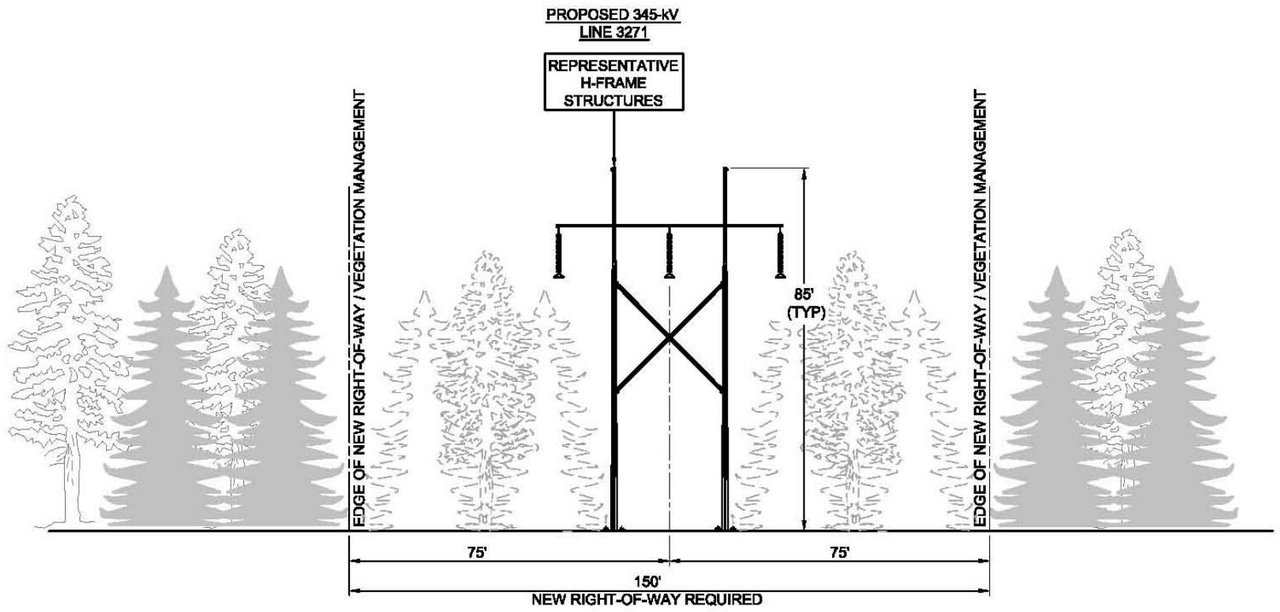
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 10 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
West of Beaver Brook State Park
Towns of Windham and Chaplin, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- CT Protected/Open Space (Beaver Brook State Park Scenic Reserve and Airline State Park Trail (Northern Section) managed by the CT DEEP)

Zoning
- Town of Windham
  - Current:
    - Residential (R-1)
- Town of Chaplin
  - Current:
    - Rural Agriculture Residence District (RAR)
    - Light Industry District (L)

Natural Systems
- Tributaries of Beaver Brook
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, and forest

VARIATION DESCRIPTION

Land Use
- CT Protected/Open Space adjacent to and within variation ROW
- Upland and/or wetland forest adjacent to and within variation ROW

Wetlands, Watercourses and Waterbodies
- Wetland No.: W23-20
- Wetland Cover Type: Palustrine Forested Wetland (PFO)

Potential Access
- Structures could be accessed from Lynch Road (see Mapsheet 11 of 11)

Vegetation
- Upland and wetland forest

Terrain
- Hilly

Existing Right-of-Way Width
- 0 feet

Right-of-Way Width Required
- 150 feet

Managed Right-of-Way
- 0 feet

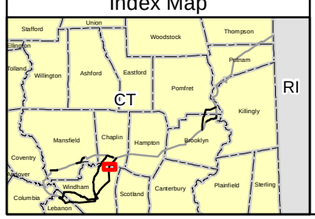
Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- None



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- R80 Zoning Designation
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 10 of 11

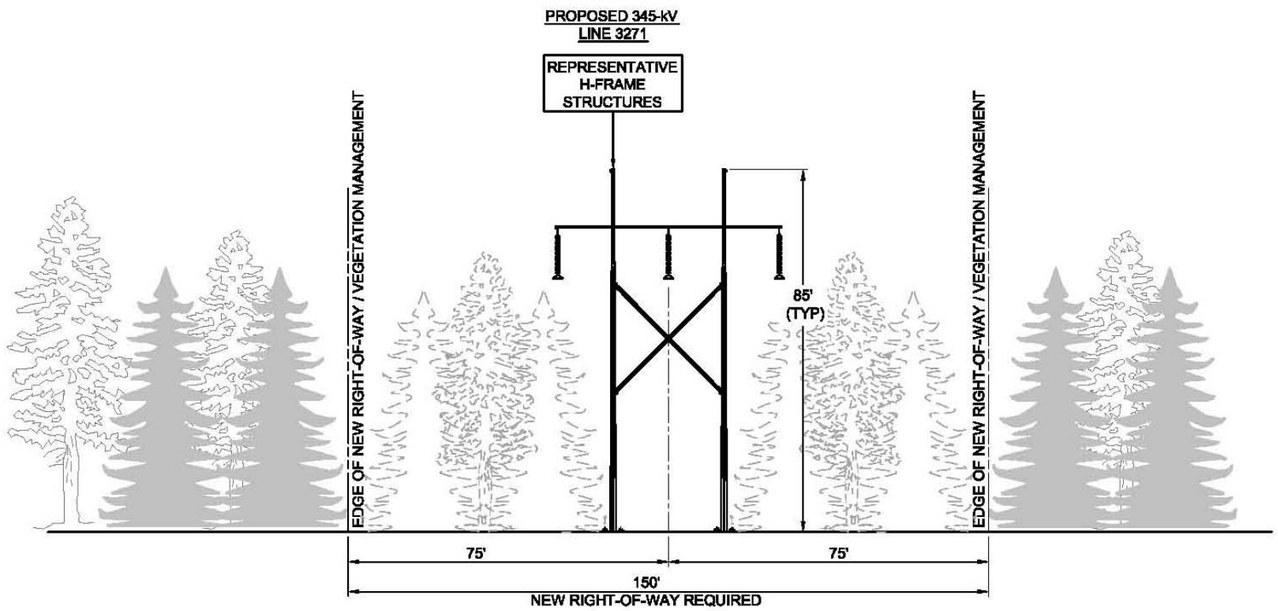
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 11 of 11:

Interstate Reliability Project
Willimantic South Overhead Variation
Lynch Road to Chewink Road (Near Existing Structure 9111)
Town of Chaplin, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- CT Protected/Open Space (Chewink Cemetery privately managed, Cemetery (East of Chewink Road) privately managed, Fin, Fur and Feather Club, Inc. privately managed, and Airline State Park Trail (Northern Section), Beaver Brook State Park Scenic Reserve and Natchaug State Forest managed by the CT DEEP)

Zoning
- Current:
  - Light Industry District (L)
  - Rural Agriculture Residence District (RAR)

Natural Systems
- Natural Diversity Data Base Area
- State/Federal jurisdictional wetlands
- Ames Brook and its associated tributaries
- Lynch Pond and associated tributaries
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, agricultural, and forest

VARIATION DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to and within variation ROW
- CT Protected/Open Space - Airline State Park Trail; Fin, Fur, and Feather Club, Inc.; Beaver Brook State Park Scenic Reserve
- Residential

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W23-21
- Wetland Cover Type: Palustrine Forested Wetland (PFO)
- Stream Nos.: S23-14 (Ames Brook), S23-15 (tributary of Ames Brook)

Potential Access
- Structures could be accessed from either Lynch Road or Chewink Road

Vegetation
- Open field-shrub, upland and/or wetland forest, house/yard

Terrain
- Hilly to broad hill tops

Existing Right-of-Way Width
- 0 feet

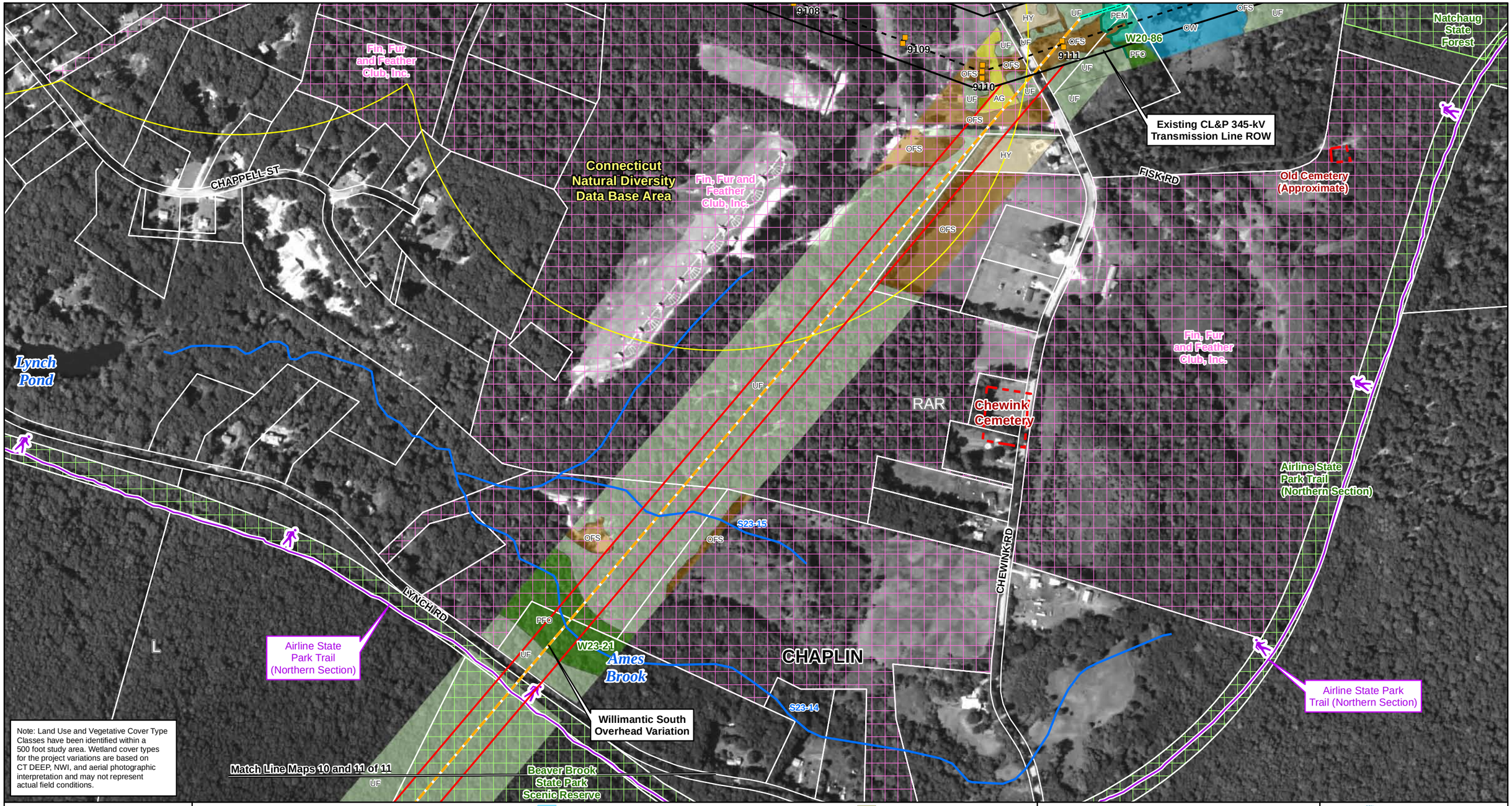
Right-of-Way Width Required
- 150 feet

Existing Managed Right-of-Way
- 0 feet

Managed Right-of-Way Width Required
- 150 feet

Road Crossings/Major Utility Crossings
- Lynch Road
- Chewink Road

Note: This line-route variation would connect to the Proposed Route near existing structure 9111. Refer to Ex. 2, Mapsheet 12 of 40 for the location and configuration of the Proposed Route in this area.



Index Map



- Right-of-Way (Existing)
- Right-of-Way (New)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- New Structure **(1)**
- New Structure (Guyed)
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- 345-kV OH Variation
- Municipal/Private Park or Open Space
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- R80 Zoning Designation
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

Interstate Reliability Project

Willimantic South Overhead Variation

Mapsheet 11 of 11

Connecticut Light & Power
A Northeast Utilities Company

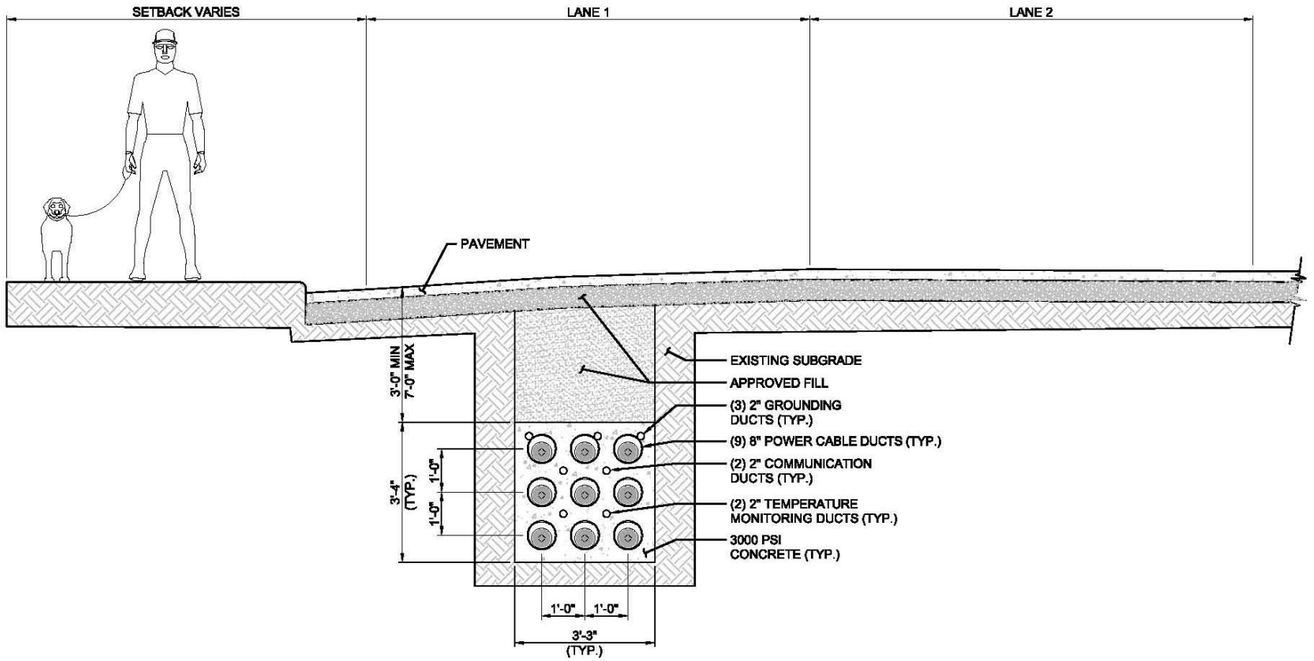
AECOM

Date: December 2011

Willimantic South Underground Variation

MAPSHEET 1 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
Card Street Substation and along Card Street
Towns of Lebanon and Windham, CT



AREA DESCRIPTION

Existing Land Use

- Commercial/Industrial (Card Street Substation)
- Agricultural
- Residential
- Connecticut (CT) Protected/Open Space (Pomeroy State Park Scenic Reserve managed by the Connecticut Department of Environmental Protection (CT DEEP))

Zoning

- Town of Lebanon
  - Current:
    - Residential Agricultural (RA)
  - Planned:
    - Rural Residential (RR)
    - Open Space (OS)
- Town of Windham
  - Current:
    - Residential (R-4)

Natural Systems

- Intermittent tributaries to the Tenmile and Willimantic Rivers
- Open water (ponds)
- Hosmer Mountain Reservoir
- Mixed hardwood and evergreen forest varying in size and age
- State/Federal jurisdictional wetlands

Visual Character

- Residential, forest, and agricultural

VARIATION DESCRIPTION

Adjacent Land Use

- Commercial/Industrial
- Residential

Wetlands, Watercourses and Waterbodies

- Wetland Nos.: W21-15, W22-1, W22-2
- Wetland Cover Type; Palustrine Forested Wetland (PFO), Palustrine Scrub-Shrub Wetland (PSS)
- Stream No.: S22-1

Vegetation

- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns

Existing Ledge, Cut and Fill

- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings and low lying depressions

Terrain

- Broad, rolling hills

Roads (Aligned Within or Adjacent To)/Major Utility Crossings

- Card Street, two lanes
- Pipeline/Utility Corridor

Note: The portions of the Proposed Route that this underground line-route variation would replace are illustrated in Ex. 2, Mapsheets 1to 11 of 40, Interstate Reliability Project, Proposed Route.



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 1 of 13

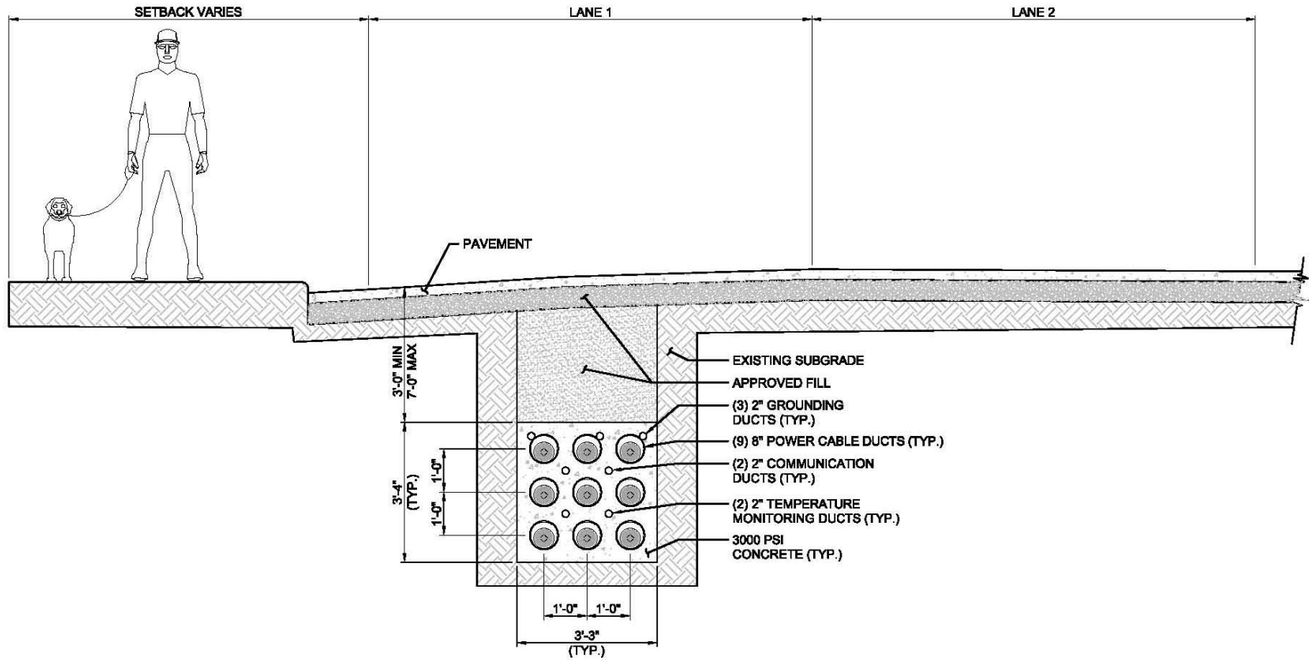
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 2 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
Card Street to Pleasant Street
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Cemetery (Main Street) privately managed, and Memorial Park, Young Park, and Guild Field managed by the Town of Windham)
- Willimantic Footbridge (Historic District)
- Windham Road Bridge (Historic District)
- Willimantic Armory (Historic District)

Zoning
- Town of Lebanon
  - Current:
    - Residential Agricultural (RA)
  - Planned:
    - Rural Residential (RR)
- Town of Windham
  - Current:
    - Residential (R-4, R-5)
    - Reserved Land Zone (RL)
    - Commercial (C-2)
    - Business (B-1, B-2, B-3)
    - Industrial (M-3, M-4)
    - Neighborhood Preservation District (NPR-1, NPR-2)
    - Reserved Protected Open Space (RPO)

Natural Systems
- State/Federal jurisdictional wetlands
- Willimantic River and its associated tributaries
- Hosmer Mountain Reservoir
- Mixed hardwood forest varying in size and age
- 100-year flood zone and SCEL (Willimantic River)

Visual Character
- Forest, commercial / industrial, and residential

VARIATION DESCRIPTION

Adjacent Land Use
- Residential
- Commercial/Industrial

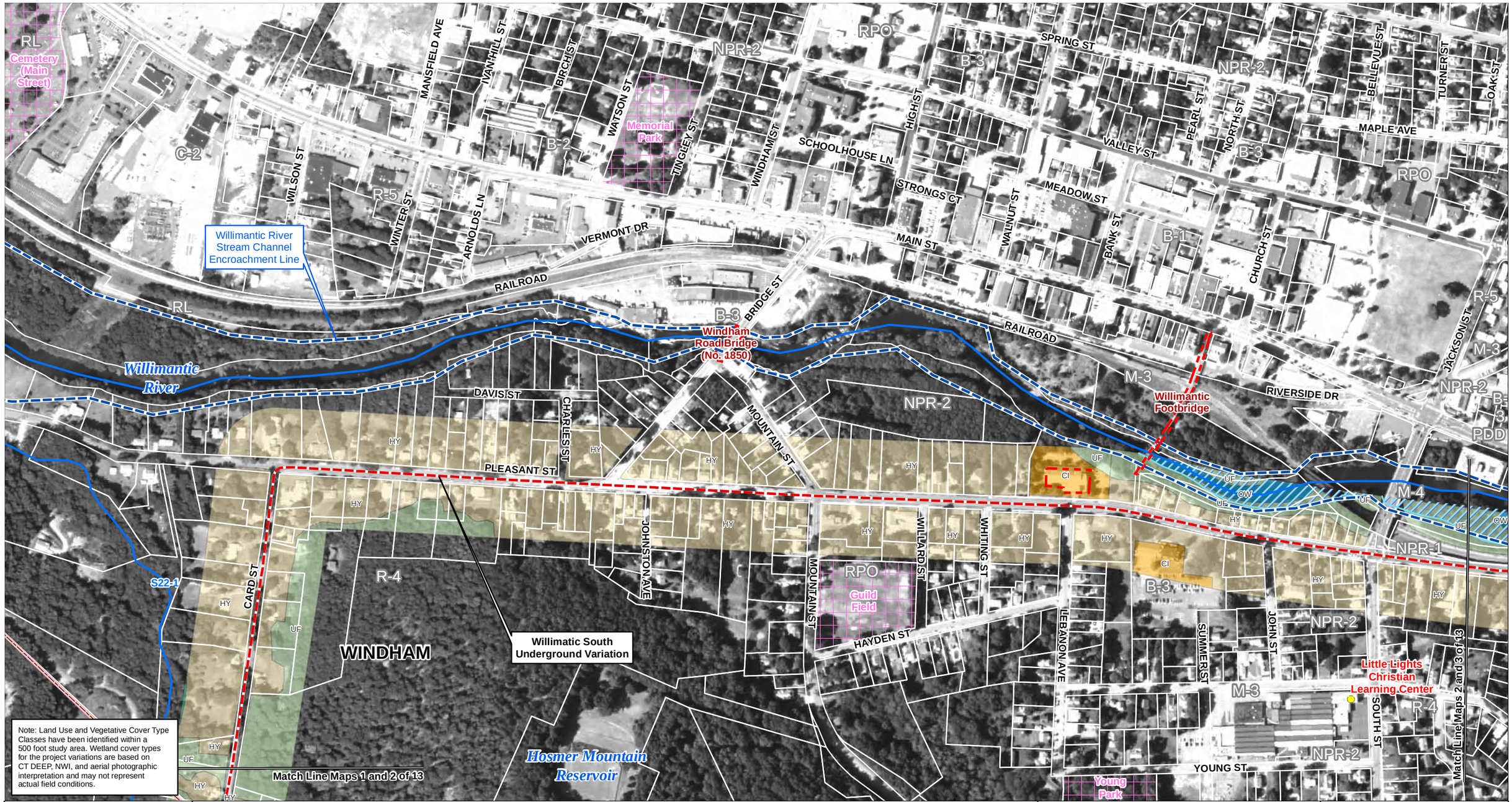
Wetlands, Watercourses and Waterbodies
- Willimantic River and associated SCEL and floodplain located north of route

Vegetation
- Lawns
- Shrubs, saplings, and herbaceous plants
- Mixed hardwood trees

Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction

Terrain
- Hilly along Card Street
- Broad, gentle hills along Pleasant Street

Roads (Aligned Within or Adjacent To)/Major Utility Crossings
- Card Street, two lanes
- Pleasant Street/State Route 32, two lanes



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 2 of 13

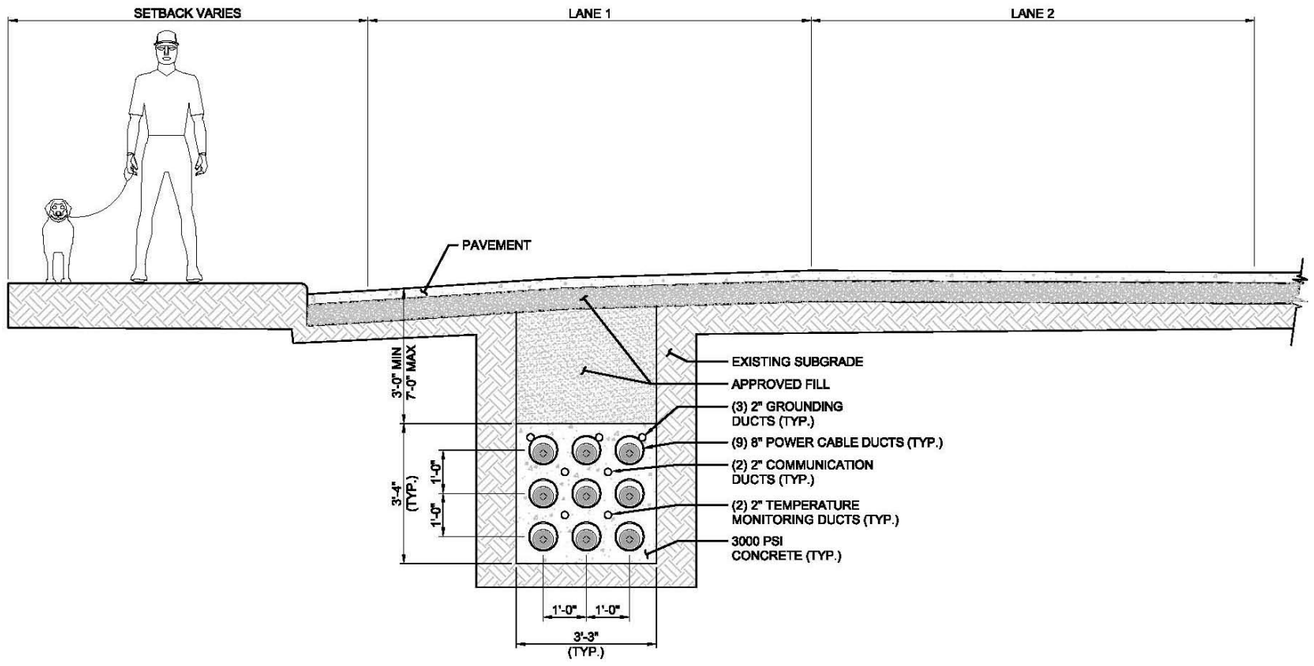
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 3 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
Pleasant Street to Plains Road
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (American Legion Athletic Fields and Willimantic Camp Meeting Association privately managed)
- Commercial/Industrial

Zoning
- Current:
  - Neighborhood Preservation District (NPR 1, NPR-2)
  - Industrial (M-2, M-3, M-4)
  - Residential (R-2, R-4, R-5)
- Planned:
  - Planned Development District (PDD)

Natural Systems
- Willimantic River and associated tributaries
- Shetucket River and associated tributaries
- Mixed hardwood forest varying in size and age
- 100-year flood zone and SCEL associated with Willimantic River
- SCEL associated with Shetucket River
- Natural Diversity Data Base Area

Visual Character
- Residential, agricultural, commercial/industrial, and forest

VARIATION DESCRIPTION

Adjacent Land Use
- Residential
- CT Protected/Open Space (American Legion Athletic Fields)
- Commercial/Industrial

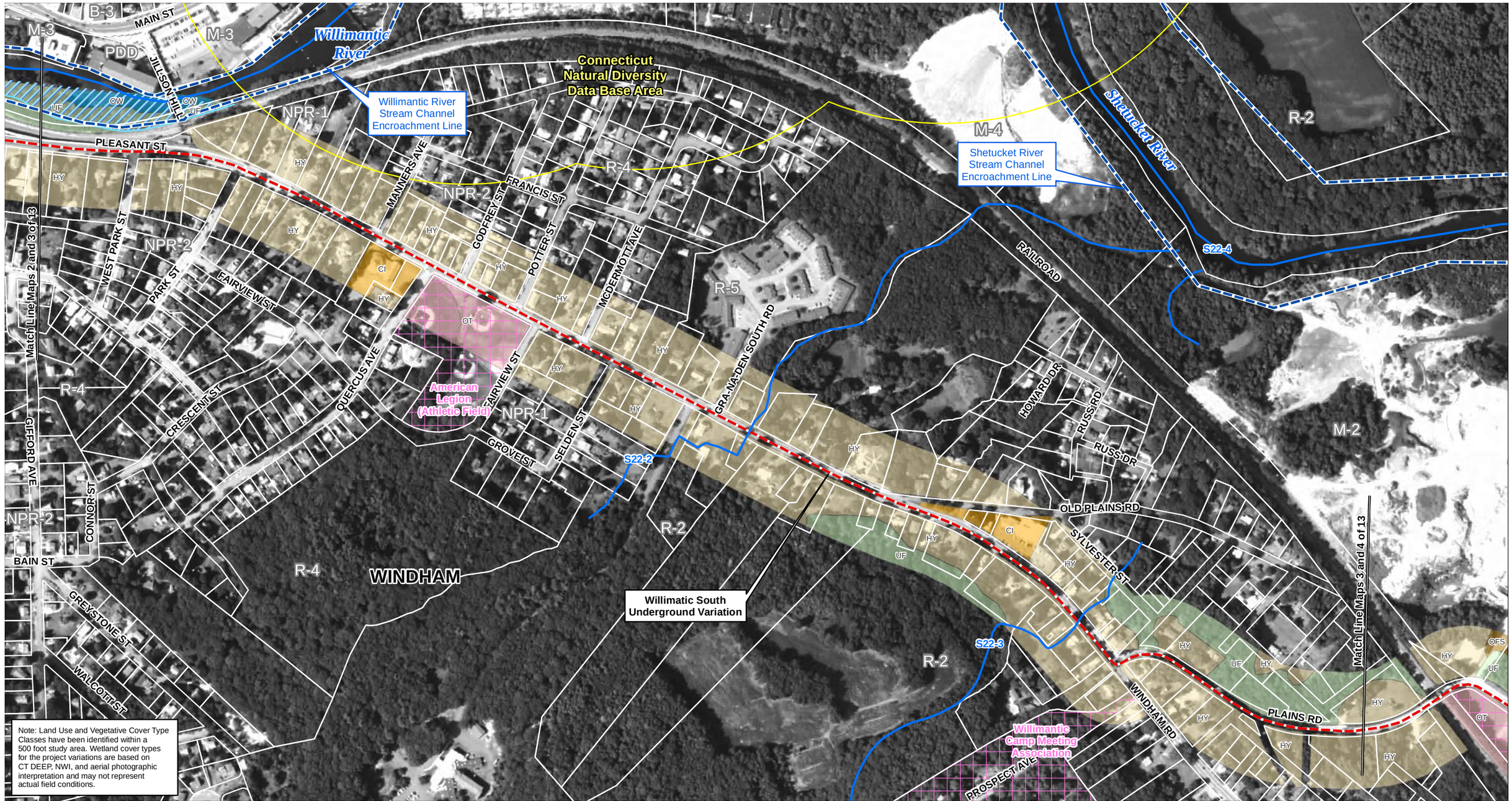
Wetlands, Watercourses and Waterbodies
- Stream Nos.: S22-2, S22-3

Vegetation
- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns

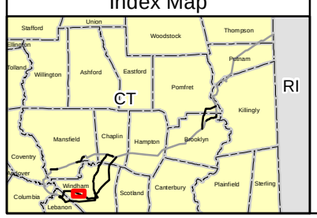
Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

Terrain
- Broad, gentle hills along Pleasant Street/State Route 32
- Hilly along Plains Road

Roads (Aligned Within or Adjacent To)/Major Utility Crossings
- Pleasant Street/State Route 32, two lanes
- Plains Road, two lanes
- Railroad



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 3 of 13

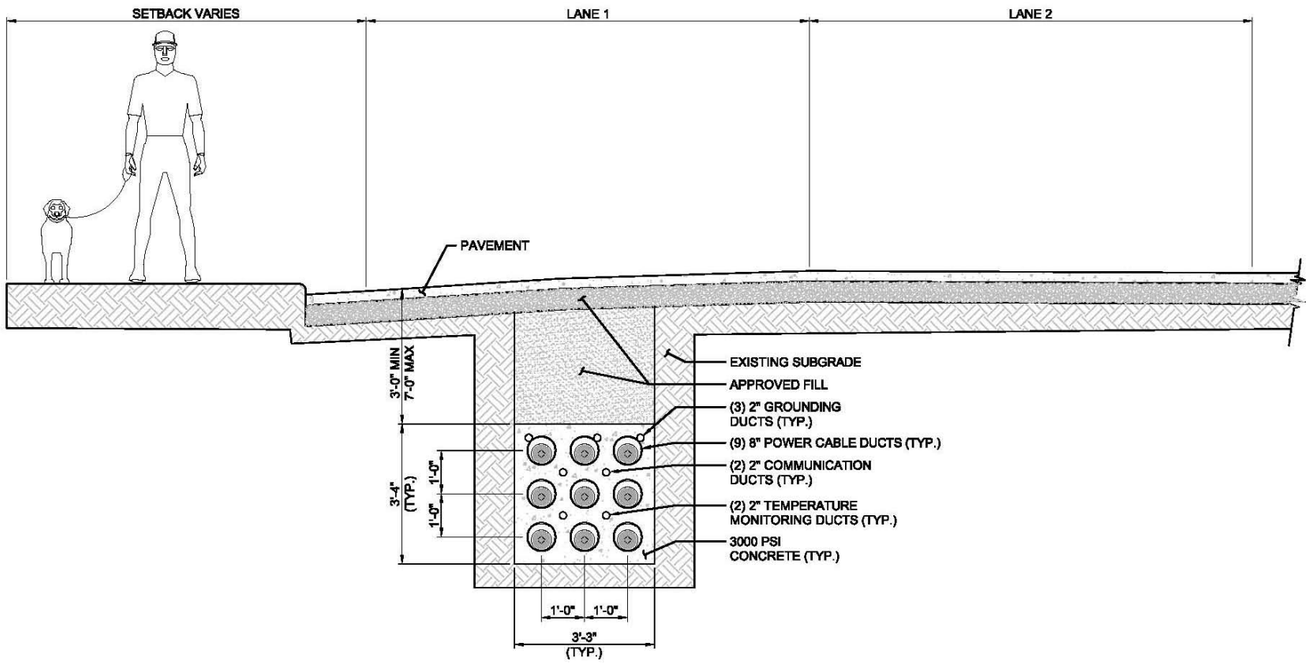
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 4 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
Plains Road
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Open Space - Shetucket Plains Park managed by the Town of Windham, and Shetucket River Water Access managed by the CT DEEP)
- Commercial/Industrial

Zoning
- Current:
  - Residential (R-2, R-3)
  - Industrial (M-2)

Natural Systems
- Mixed hardwood forest varying in size and age
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Shetucket River and its associated tributaries
- Potash Pond
- Potash Brook and its associated tributaries
- 100-year floodplain and SCEL associated with Shetucket River
- Natural Diversity Data Base Area

Visual Character
- Residential, agricultural, commercial/industrial, and forest

VARIATION DESCRIPTION

Adjacent Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Shetucket Plains Park)
- Commercial/Industrial

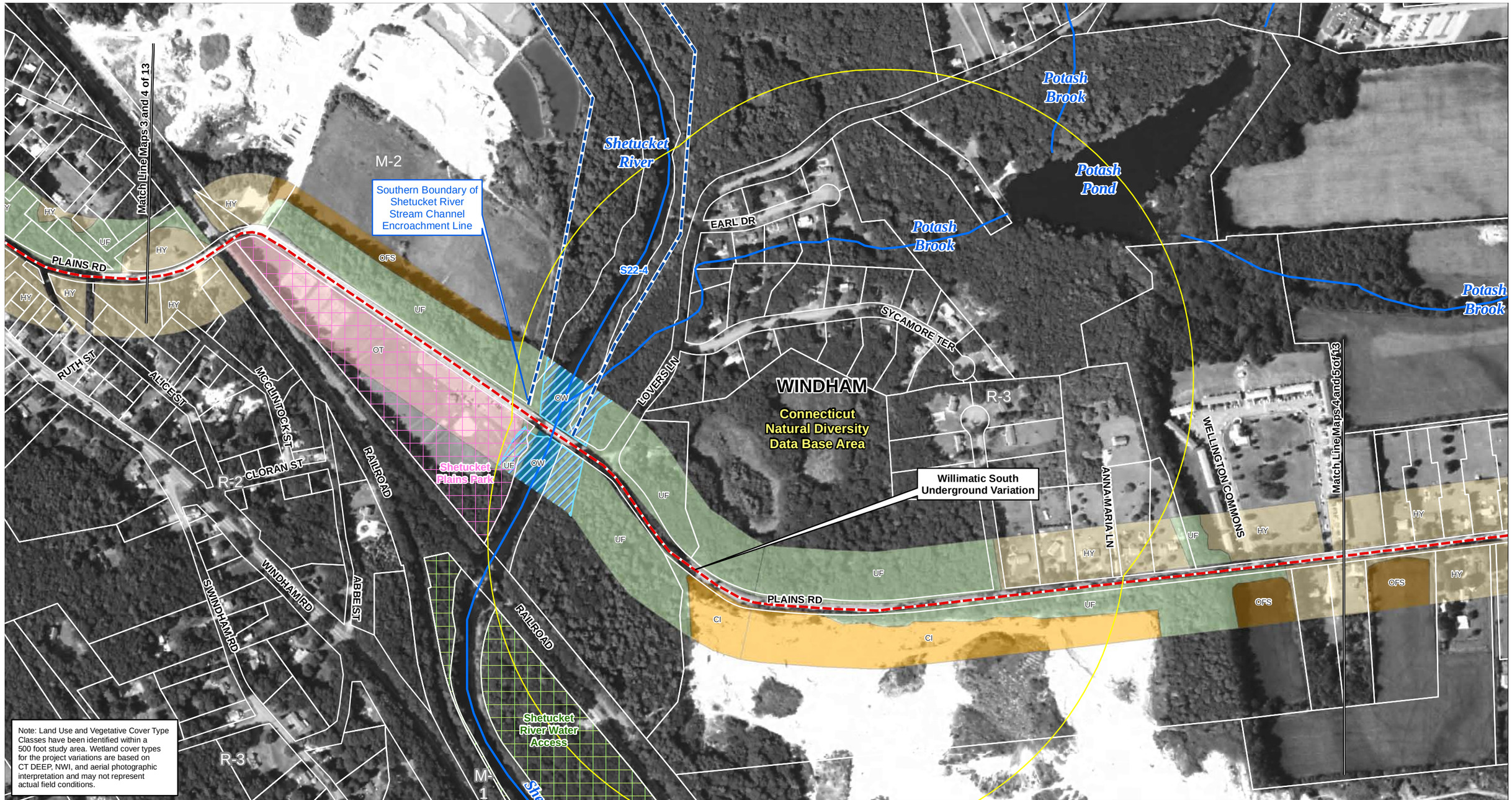
Wetlands, Watercourses and Waterbodies
- Stream No.: S22-4 (Shetucket River)

Vegetation
- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns

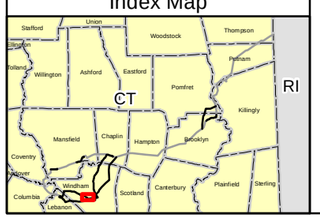
Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

Terrain
- Broad, gentle slopes to hilly

Roads (Aligned Within or Adjacent To)/Major Utility Crossings
- Plains Road, two lanes
- Railroad bridge crossing



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 4 of 13

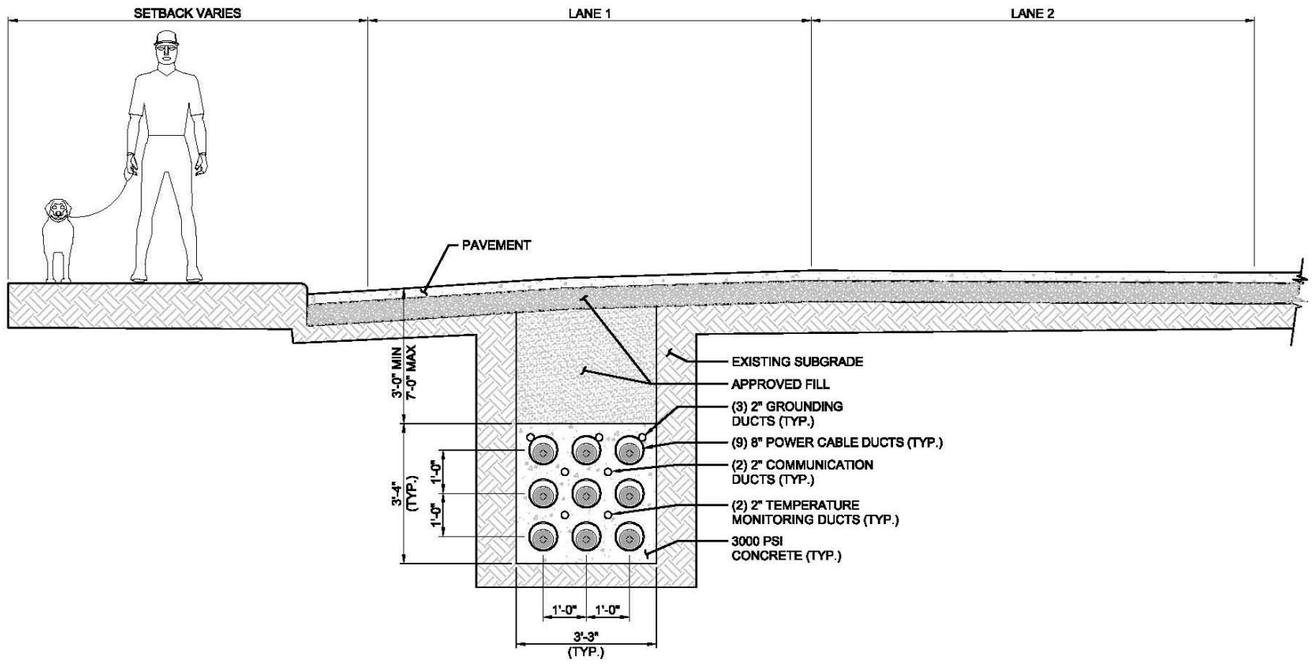
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 5 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
Plains Road to North Road (State Route 14)
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Commercial/Industrial
- Windham Center School and playground
- Residential day care
- Windham Center Historic District

Zoning
- Current:
  - Residential (R-1, R-3)
  - Windham Center Historical District

Natural Systems
- Natural Diversity Data Base Area
- Potash Brook and its associated tributaries
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, agricultural, and forest
- State Routes 14 (North Road) and 203 (Windham Center Road) are state scenic roads

VARIATION DESCRIPTION

Adjacent Land Use
- Residential
- Agricultural
- Windham Center Historic District
- Windham Center School

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W22-3, W22-4, W22-5
- Wetland Cover Types: Palustrine Scrub-Shrub (PSS), Palustrine Forested Wetland (PFO), Open Water (OW), Palustrine Emergent Wetland (PEM)
- Stream Nos.: S22-5, S22-6 (Potash Brook)

Vegetation
- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns

Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

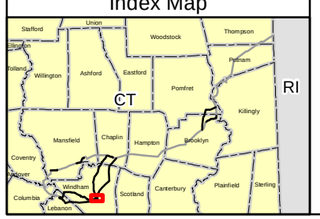
Terrain
- Flat to hilly

Roads (Aligned Within or Adjacent To)/Major Utility Crossings
- Plains Road, two lanes
- North Road State Routes 14 / 203 (State Scenic Road), two lanes



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 5 of 13

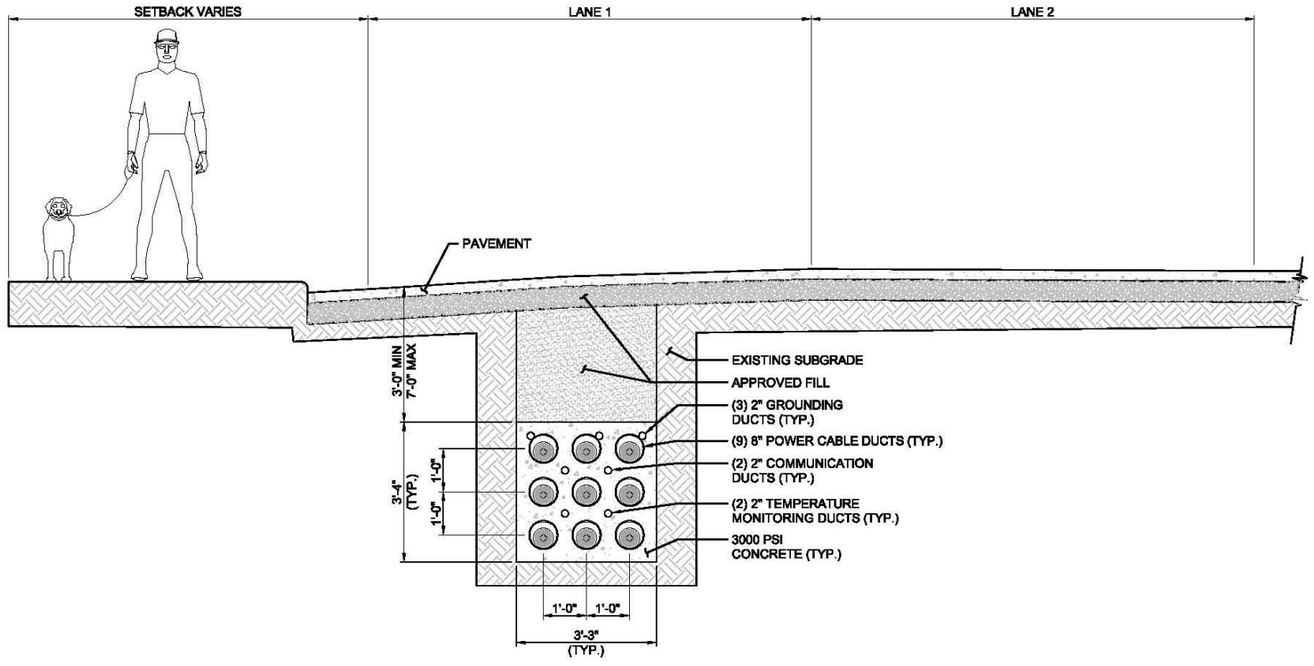
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 6 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
North Road to North Windham Road (State Route 203)
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- Commercial/Industrial
- Windham Center Historic District

Zoning
- Current:
  - Residential (R-1, R-3)

Natural Systems
- State/Federal jurisdictional wetlands
- Weatherbee Pond
- Lymans Pond
- Potash Brook and its associated tributaries
- Mixed hardwood forest varying in size and age
- 100-year flood zone (Potash Brook)

Visual Character
- Agricultural, residential, and forest

VARIATION DESCRIPTION

Adjacent Land Use
- Residential
- Agricultural
- Commercial/Industrial
- Windham Center Historic District

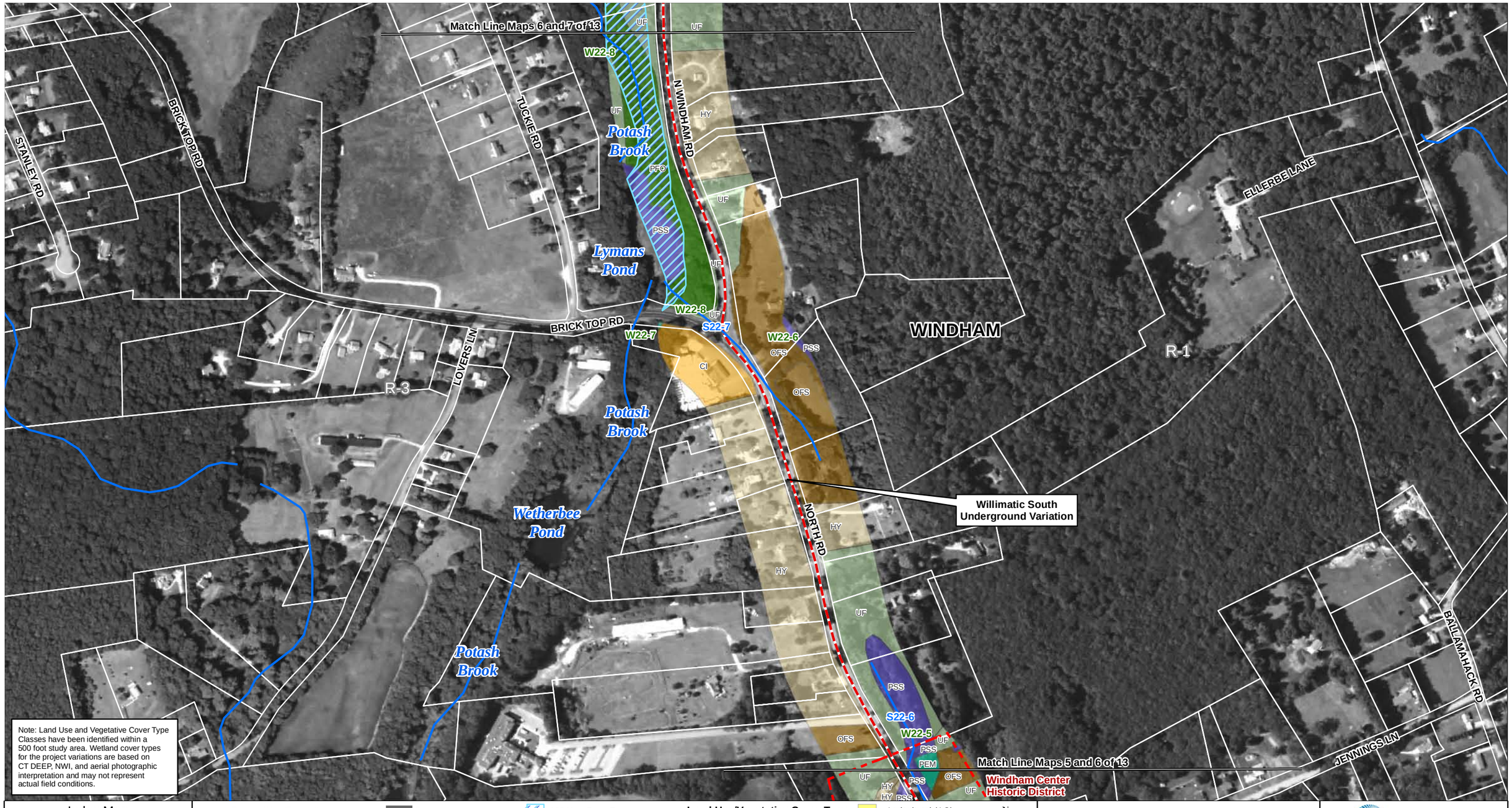
Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W22-5, W22-6, W22-7, W22-8
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Palustrine Emergent Wetland (PEM)
- Stream Nos.: S22-6, S22-7

Vegetation
- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns

Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

Terrain
- Floodplain to broad, gentle hills

Roads (Aligned Within or Adjacent To)/Major Utility Crossings
- North Road (State Routes 14 / 203 (State Scenic Road)), two lanes
- North Windham Road (State Route 203), two lanes



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 6 of 13

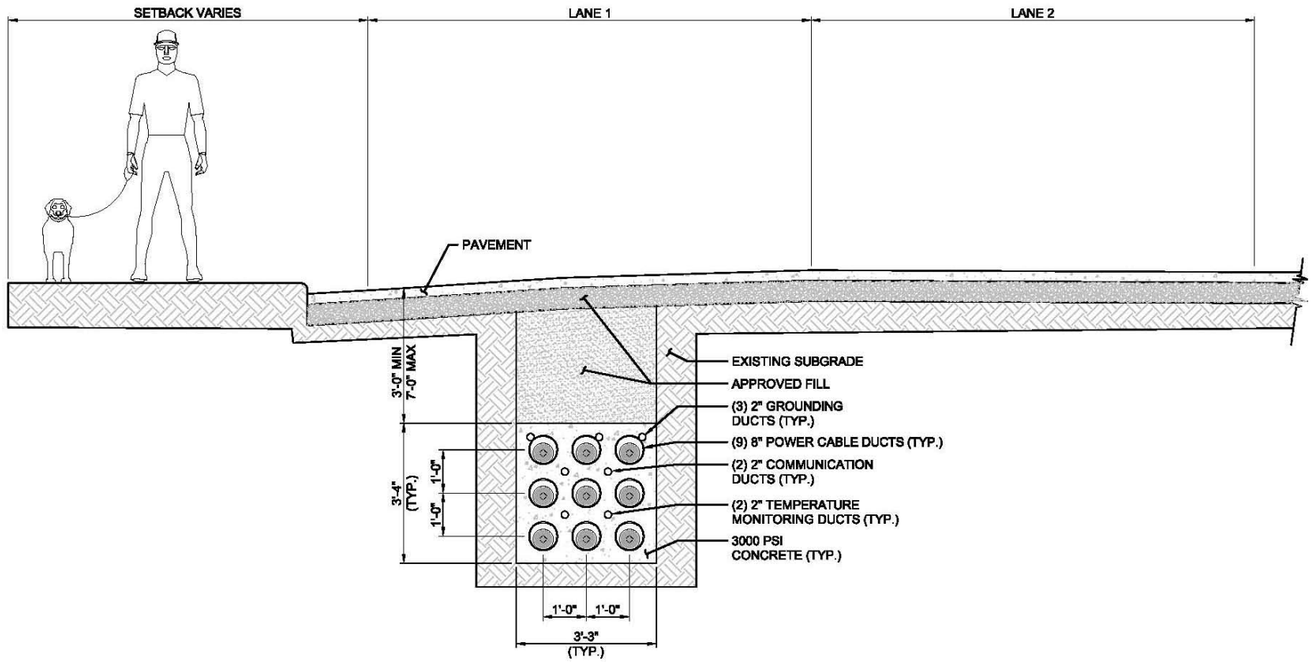
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 7 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
North Windham Road (State Route 203)
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Agricultural
- CT Protected/Open Space (Diocese of Byzantine Rite Stamford, Inc. privately managed)

Zoning
- Current:
  - Residential (R-1,R-2, R-3)

Natural Systems
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Chestnut Hill Brook and its associated tributaries
- Potash Brook and its associated tributaries
- Mixed hardwood forest varying in size and age
- 100-Year flood zone (Potash Brook)

Visual Character
- Agricultural, residential, and forest

VARIATION DESCRIPTION

Adjacent Land Use
- Residential
- Agricultural
- Forested

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W22-8, W22-9, W22-10, W22-11, W22-12
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Palustrine Emergent Wetland (PEM)
- Stream No.: S22-8 (Potash Brook)

Vegetation
- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns
- Agriculture

Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

Terrain
- Broad, gentle hills

Roads (Aligned Within or Adjacent To)/Major Utility Crossings
- North Windham Road, two lanes

Match Line Maps 7 and 8 of 13

Diocese Of Byzantine Rite Stamford, Inc.

OLD MANSFIELD RD

R-3

R-2

CARRIAGE LN

BRICK TOP LN

TUCKIE RD

GEORGE ST

BRICK TOP RD

OBARA DR

STA

AG

PEM

W22-12

OFS

HY

W22-11

PEM

Potash Brook

W22-10

PSS

S22-8

AG

HY

UF

Chestnut Hill Brook

Willimatic South Underground Variation

R-1

PFO

HY

Potash Brook

N WINDHAM RD

WINDHAM

UF

HY

W22-9

PFO

UF

PEM

HY

HY

PEM

HY

UF

UF

Match Line Maps 6 and 7 of 13

W22-8

PFO

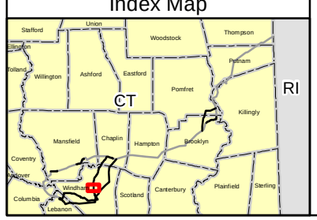
UF

HY

BALLAMANACK RD

Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

1:4,800

0 400 800 Feet

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 7 of 13

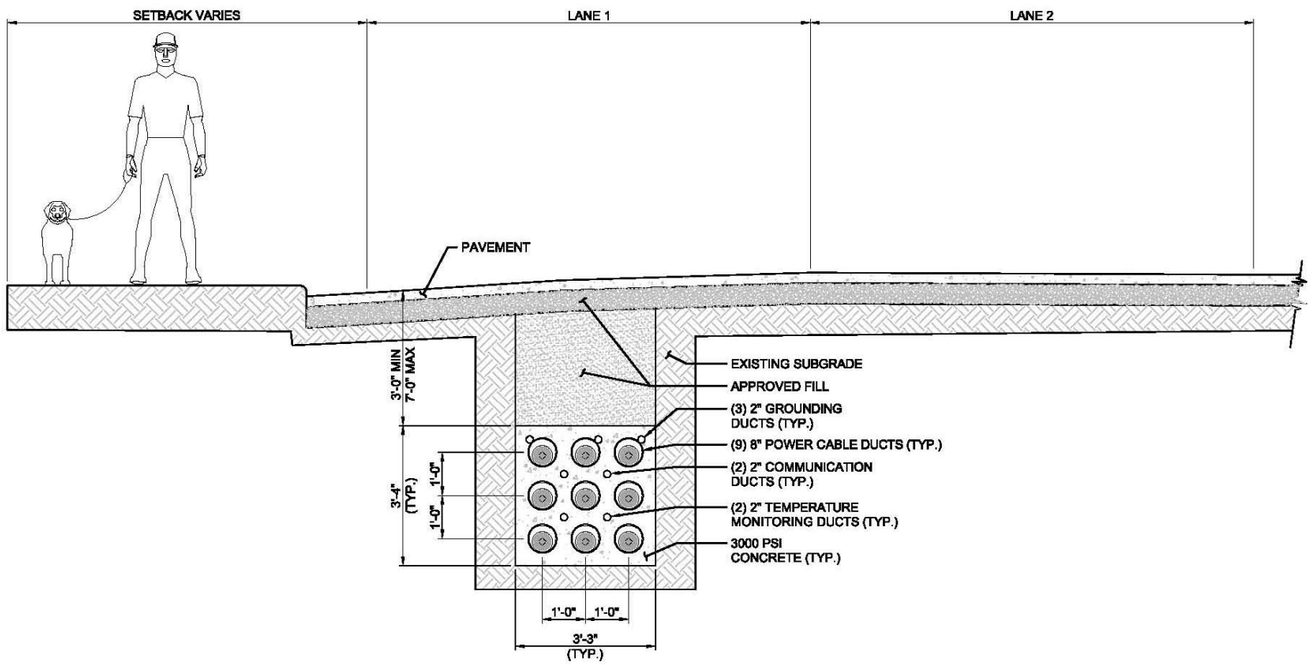
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 8 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
North Windham Road (State Route 203)
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- CT Protected/Open Space (Diocese of Byzantine Rite Stamford, Inc. privately managed and Natchaug State Forest managed by the CT DEEP)

Zoning
- Current:
  - Residential (R-1, R-2, R-3)

Natural Systems
- Potash Brook and its associated tributaries
- Open water (ponds)
- Mixed hardwood forest varying in size and age
- State/Federal jurisdictional wetlands

Visual Character
- Residential, agricultural, and forest

VARIATION DESCRIPTION

Adjacent Land Use
- Residential
- Agricultural
- Forest

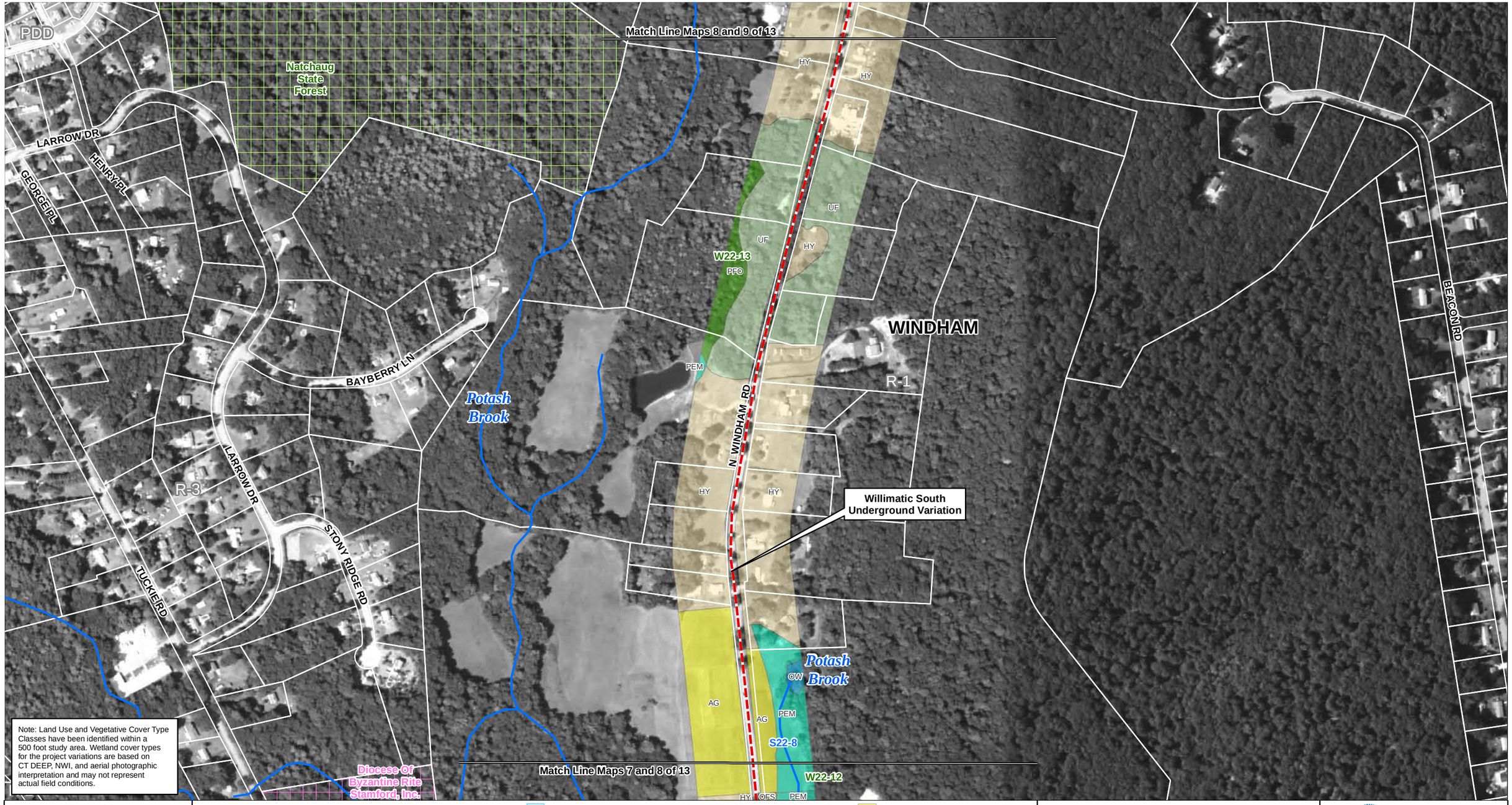
Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W22-12, W22-13
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Palustrine Emergent Wetland (PEM), Open Water (OW)

Vegetation
- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns
- Agriculture

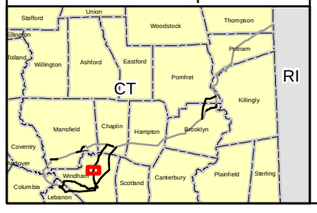
Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

Terrain
- Broad, rolling hills

Roads (Aligned Within or Adjacent To)/Major Utility Crossings
- North Windham Road, two lanes



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 8 of 13

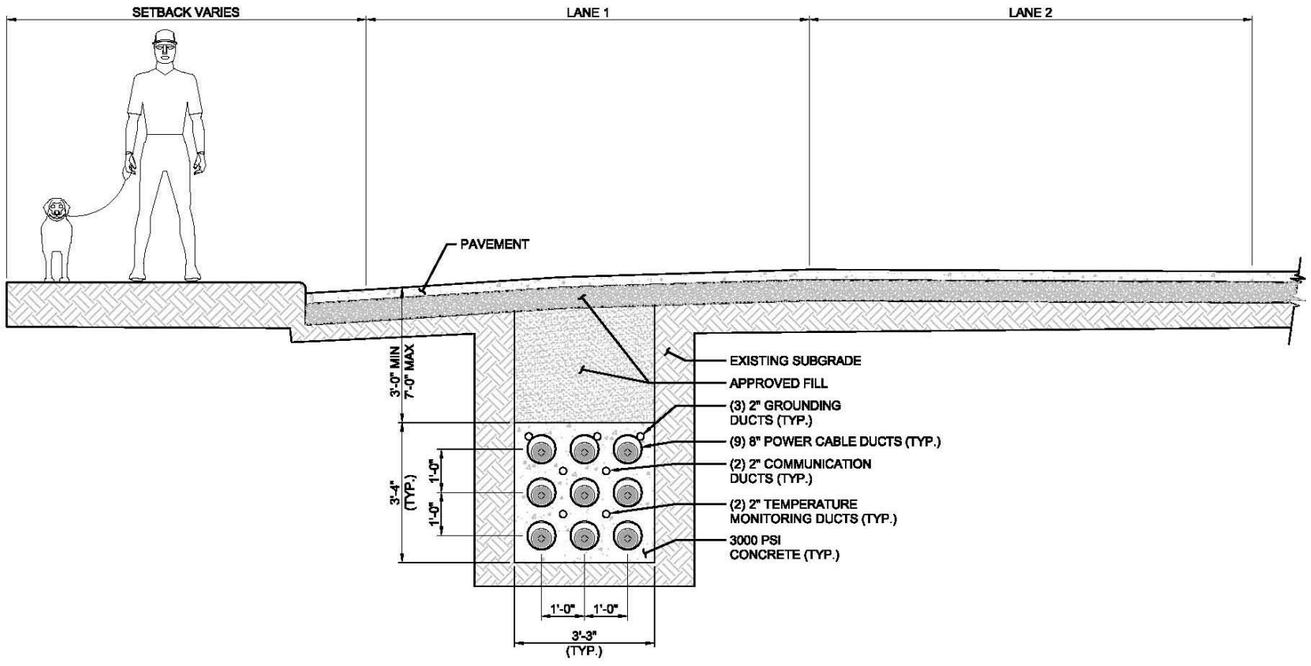
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 9 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
North Windham Road (State Route 203)
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Commercial/Industrial (Desaito Sand and Gravel Corporation)
- CT Protected/Open Space (Airline State Park Trail (Northern Section) and Natchaug State Forest managed by the CT DEEP)

Zoning
- Current:
  - Residential (R-1)
  - Industrial (M-1)

Natural Systems
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Potash Brook and its associated tributaries
- Unnamed tributary
- Mixed hardwood forest varying in size and age
- 100-year flood zone
- Natural Diversity Data Base Area

Visual Character
- Commercial, residential, and forest

VARIATION DESCRIPTION

Adjacent Land Use
- Residential
- Commercial/Industrial

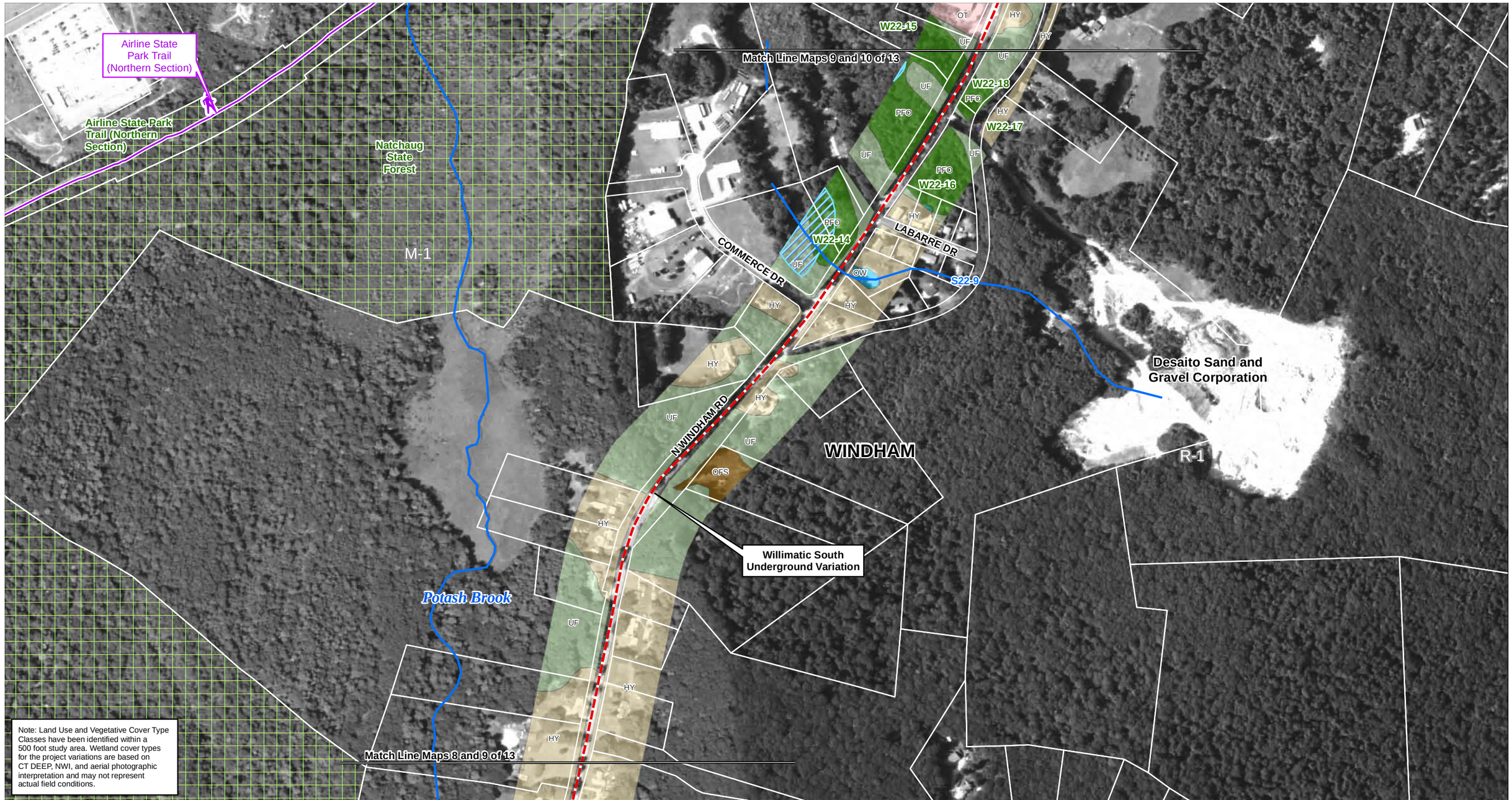
Wetlands, Watercourses and Waterways
- Wetland Nos.: W22-14, W22-15, W22-16, W22-17, W22-18
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream No.: S22-9

Vegetation
- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns

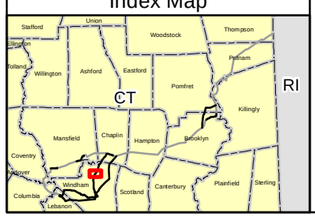
Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

Terrain
- Broad, rolling hills

Road (Aligned Within or Adjacent To) /Major Utility Crossings
- North Windham Road, two lanes



Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 9 of 13

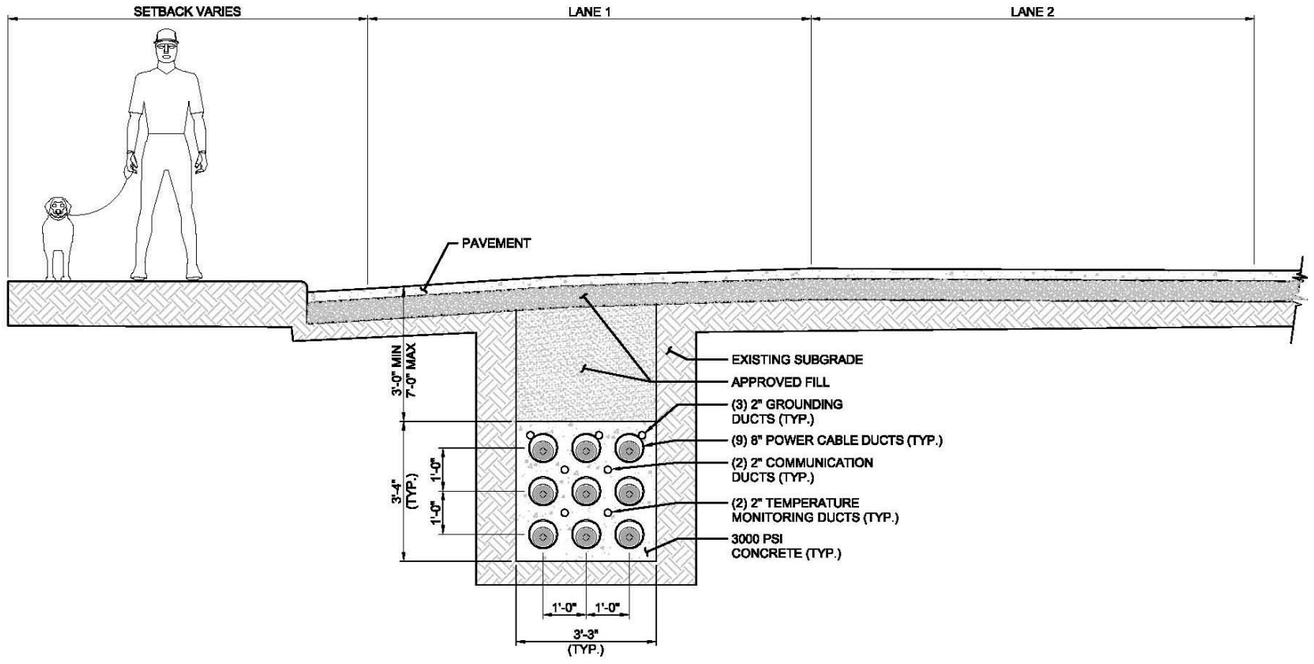
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 10 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
North Windham Road (State Route 203)
Town of Windham, CT



AREA DESCRIPTION

Existing Land Use
- Agricultural
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Joshua's Tract Conservation and Historic Land Trust (Windham Atlantic White Cedar Bog) privately managed, and Airline State Park Trail (Northern Section), Mansfield Hollow WMA, and Natchaug State Forest managed by the CT DEEP)
- North Windham Elementary School and playground
- Residential day-care

Zoning
- Current:
  - Residential (R-1)
  - Industrial (M-1)
  - Commercial (C-1)

Natural Systems
- State/Federal jurisdictional wetlands
- Potash Brook and its associated tributaries
- Hams Pond
- Open water (ponds)
- Mixed hardwood forest varying in size and age
- Natural Diversity Data Base Area

Visual Character
- Residential, agricultural, commercial/industrial, and forest

VARIATION DESCRIPTION

Adjacent Land Use
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Airline State Park Trail)
- North Windham Elementary School

Wetlands, Watercourses and Waterways
- Wetland Nos.: W22-15, W22-19, W22-20, W22-21, W22-22
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW), Palustrine Emergent Wetland (PEM)
- Stream Nos.: S22-10, S22-11

Vegetation
- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns

Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

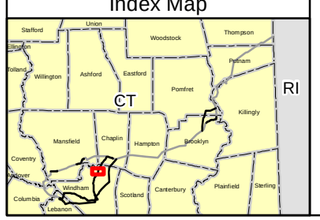
Terrain
- Broad, rolling hills

Road (Aligned Within or Adjacent To) /Major Utility Crossings
- North Windham Road, two lanes



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 10 of 13

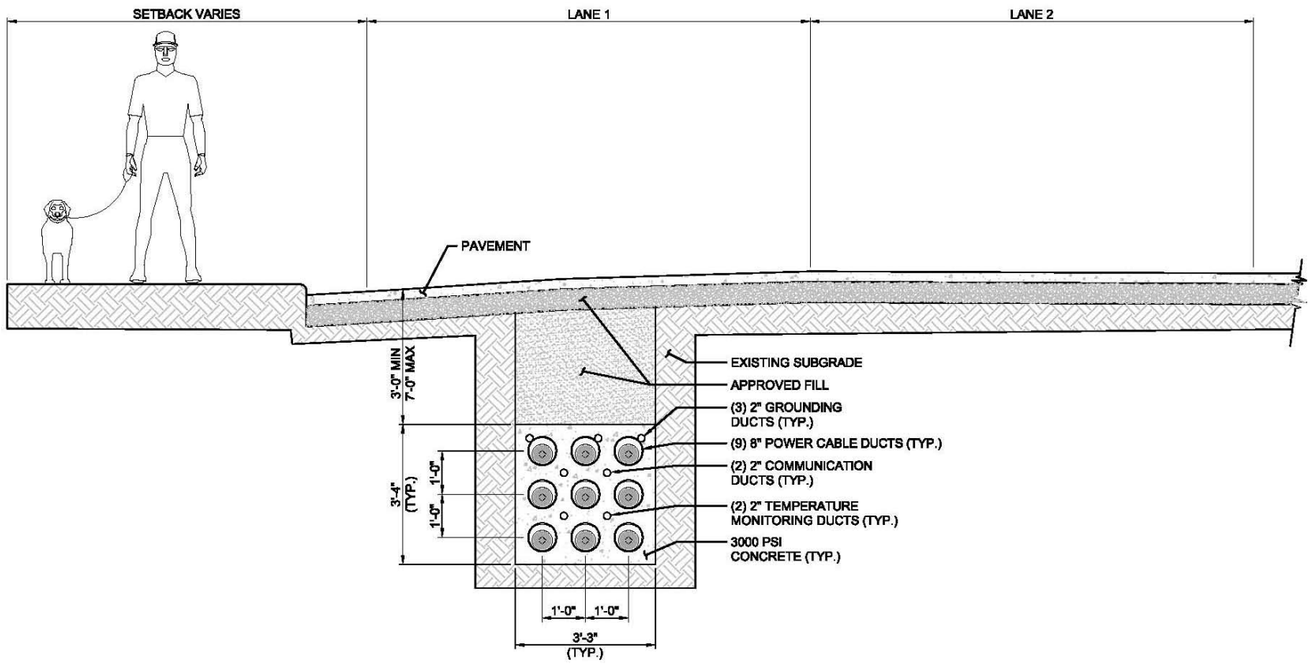
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 11 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
North Windham Road to U.S. Route 6/ Boston Post Road/ Willimantic Road
Towns of Windham, Mansfield, and Chaplin, CT



AREA DESCRIPTION

Existing Land Use

- Residential
- Agricultural
- Commercial/Industrial
- CT Protected/Open Space (Cemetery (North Windham Road) privately managed, Joshua's Tract Conservation and Historic Land Trust (Windham Atlantic White Cedar Bog and Two Sisters Tract) privately managed, CFPA Nipmuck Trail (East Branch), Airline State Park Trail (Northern Section), Mansfield Hollow WMA, Mansfield Hollow State Park, and Natchaug State Forest managed by the CT DEEP)
- Mansfield Hollow Dam Historic District
- Carelot Children's Center

Zoning

- Town of Windham
  - Current:
    - Residential (R-1)
    - Industrial (M-1)
    - Commercial (C-1)
- Town of Mansfield
  - Current:
    - Flood Hazard Zone (FH)
    - Rural Agriculture Residence District, 90 Zone (RAR-90)
- Town of Chaplin
  - Current:
    - Rural Agriculture Residence (RAR)
    - Business (B)
    - Light Industrial District (L)

Natural Systems

- Mixed hardwood forest varying in size and age
- State/Federal jurisdictional wetlands
- Natchaug River and its associated tributaries
- Open water (ponds)
- Mosley Pond
- 100-year flood zone
- Natural Diversity Data Base Areas

Visual Character

- Open space, recreation, residential, agricultural, commercial/industrial, and forest

VARIATION DESCRIPTION

Adjacent Land Use

- Residential
- Agricultural
- Commercial/Industrial
- CT Protected/Open Space (Mansfield Hollow State Park)
- Carelot Children's Center

Wetlands, Watercourses and Waterways

- Wetland Nos.: W22-22, W22-23, W22-24, W22-25, W22-26
- Wetland Cover Types: Palustrine Forested Wetland (PFO), Palustrine Emergent Wetland (PEM)
- Stream No.: S22-12

Vegetation

- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns
- Agriculture

Existing Ledge, Cut and Fill

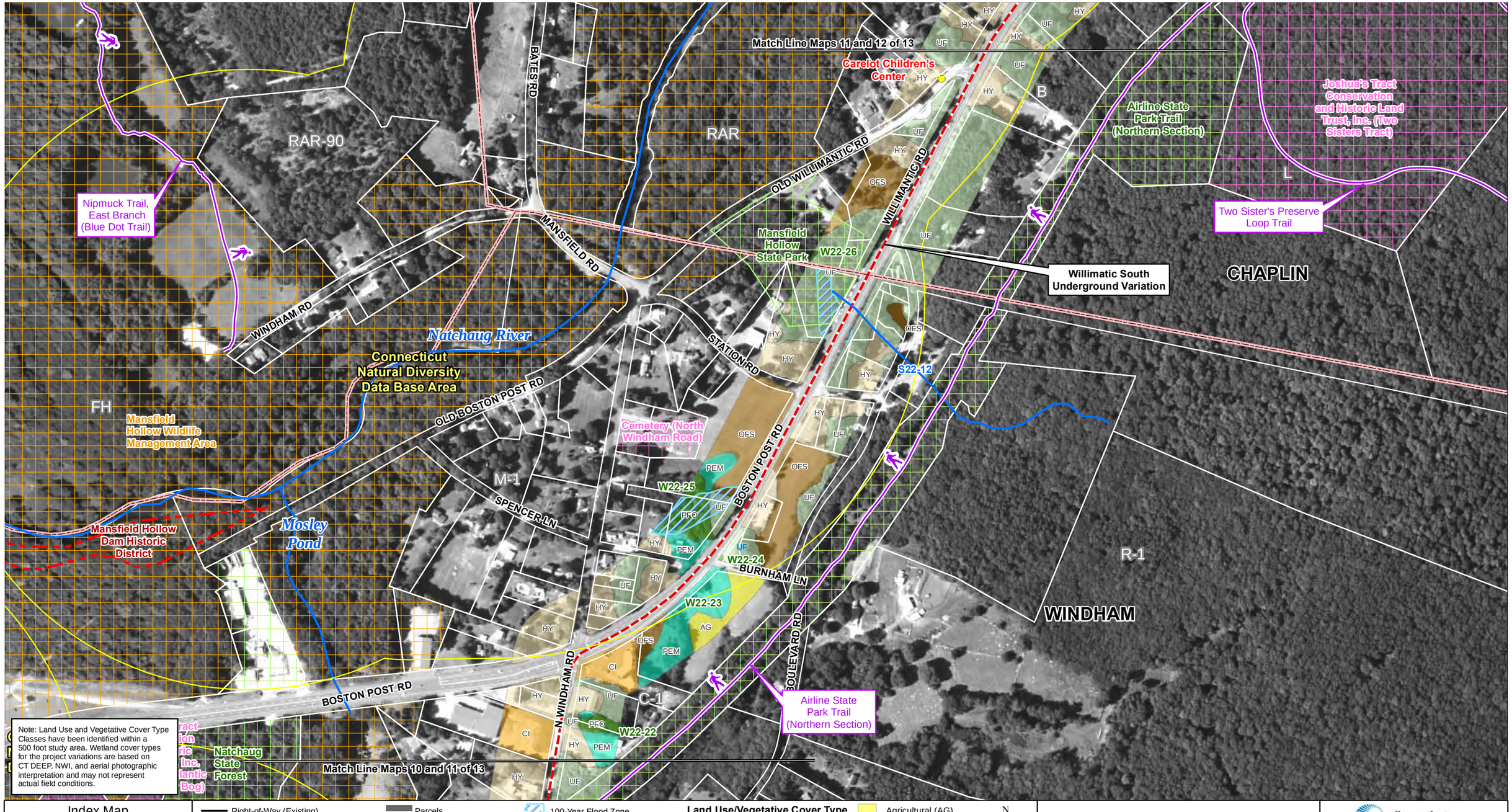
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

Terrain

- Flat alluvial plains

Road (Aligned Within or Adjacent To) /Major Utility Crossings

- North Windham Road, two lanes
- U.S. Route 6/Boston Post Road/Willimantic Road, four lanes



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800
0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 11 of 13

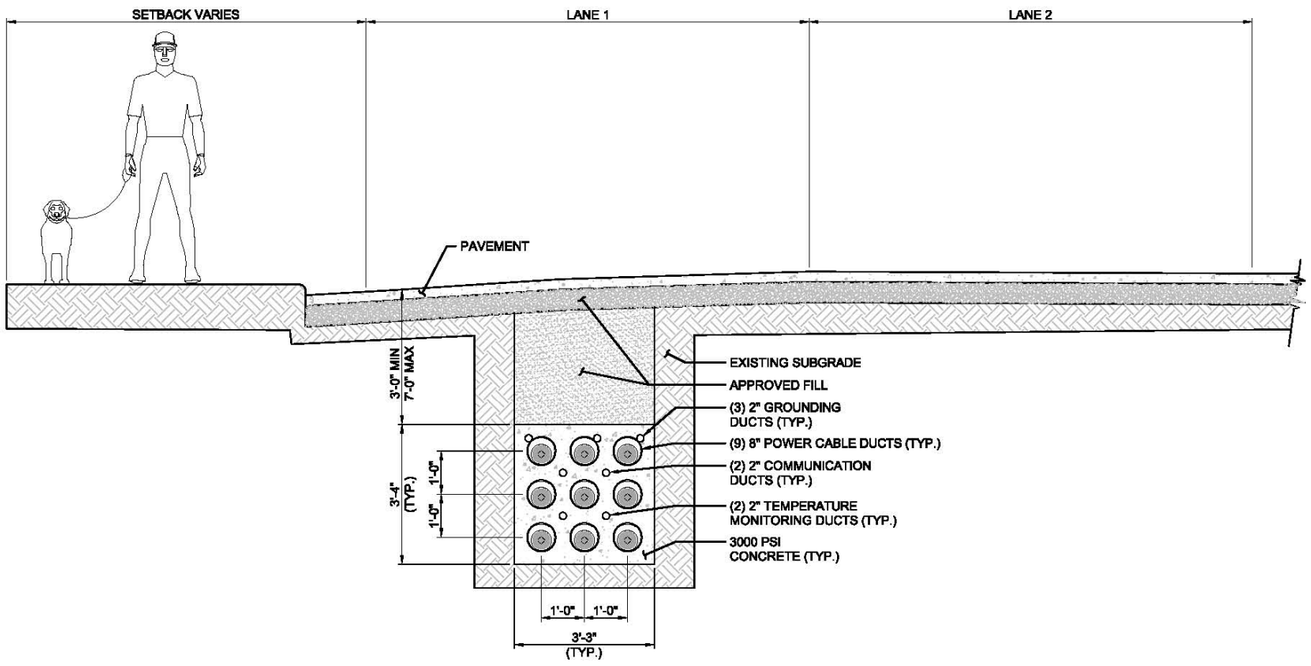
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 12 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
Willimantic Road (U.S. Route 6)
Town of Chaplin, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Joshua's Tract Conservation and Historic Land Trust Two Sisters Tract -privately managed; Airline State Park Trail (Northern Section), Mansfield Hollow WMA managed by the CT DEEP; and Fin, Fur and Feather Club, Inc., privately managed)

Zoning
- Current:
  - Rural Agriculture Residence (RAR)
  - Business (B)

Natural Systems
- Tucker Pond
- State/Federal jurisdictional wetlands
- Mixed hardwood forest varying in size and age
- Natural Diversity Data Base Area
- Open water (ponds)
- Lynch Pond
- Natchaug River and its associated tributaries
- Mansure Pond

Visual Character
- Residential, commercial, and forest

VARIATION DESCRIPTION

Adjacent Land Use
- Residential
- Commercial/Industrial

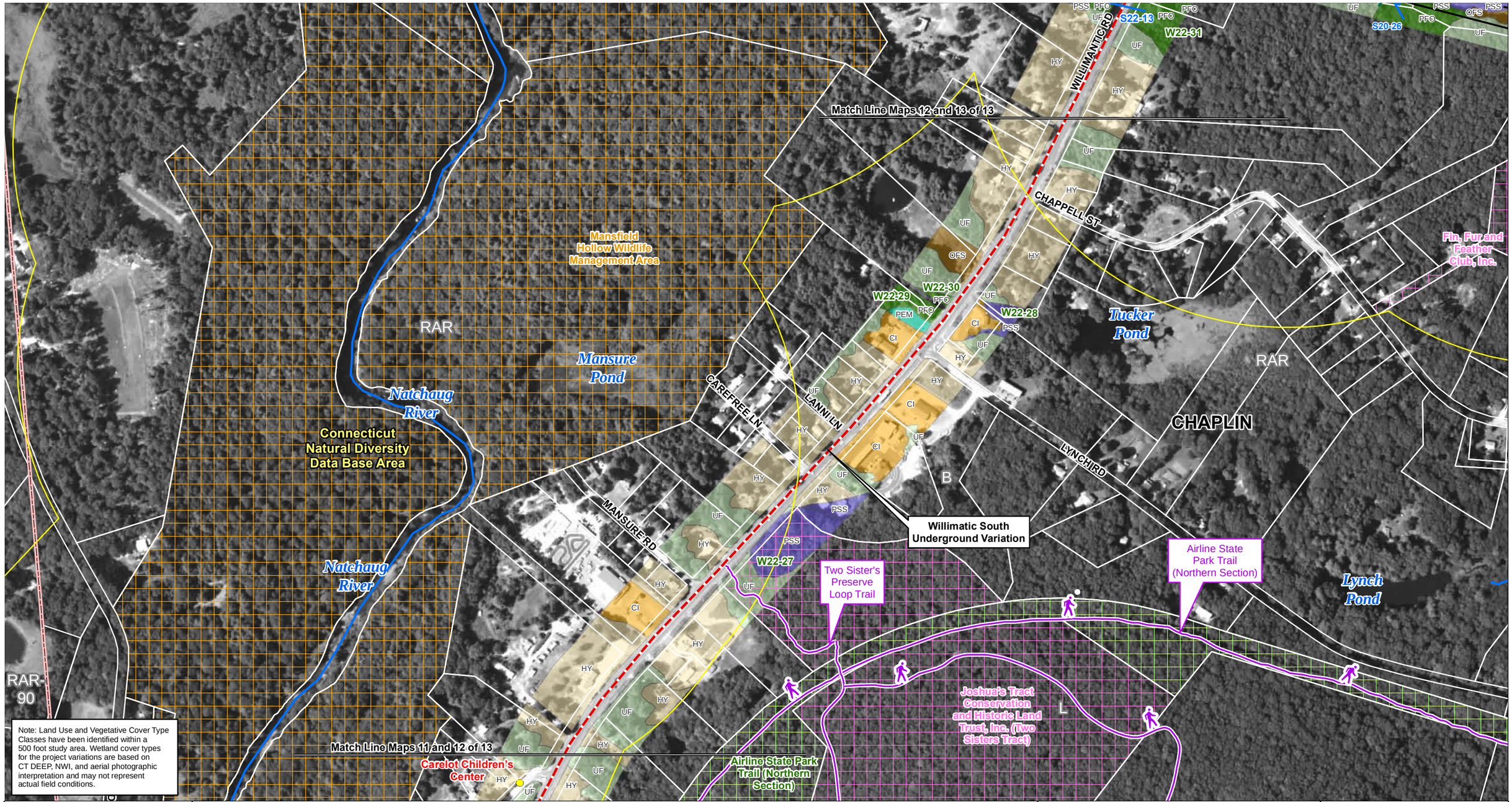
Wetlands, Watercourses and Waterways
- Wetland Nos.: W22-27, W22-28, W22-29, W22-30
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Palustrine Emergent Wetland (PEM)

Vegetation
- Mixed hardwood trees
- Shrubs, saplings, and herbaceous plants
- Lawns

Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

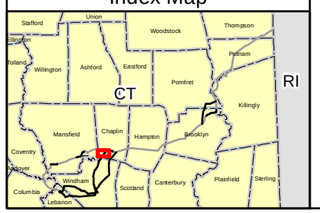
Terrain
- Flat alluvial plains

Road (Aligned Within or Adjacent To) /Major Utility Crossings
- Willimantic Road (U.S. Route 6), four lanes



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure **(9001)**
- Existing Structure (Guyed)
- Proposed Structure **(1)**
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary **(W20-1)**
- Watercourse **(S20-68)**
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 12 of 13

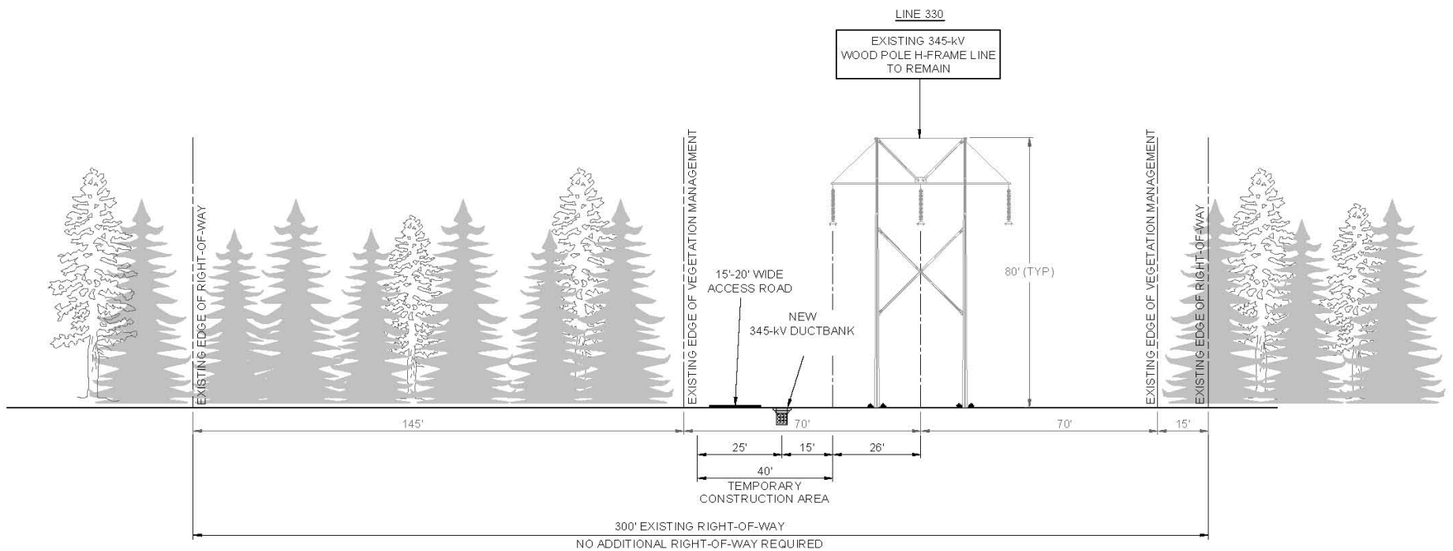
Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011

MAPSHEET 13 of 13:

Interstate Reliability Project
Willimantic South Underground Variation
Willimantic Road (U.S. Route 6) to Line Transition Station along CL&P Right-of-Way (Near Structure 9107)
Town of Chaplin, CT



AREA DESCRIPTION

Existing Land Use
- Residential
- Commercial/Industrial
- CT Protected/Open Space (Fin, Fur and Feather Club, Inc privately managed, and Mansfield Hollow WMA and Natchaug State Forest and forest trails managed by the CT DEEP)

Zoning
- Current:
  - Rural Agriculture Residence (RAR)
  - Business (B)

Natural Systems
- Natural Diversity Data Base Area
- State/Federal jurisdictional wetlands
- Open water (ponds)
- Buttonball Brook and its associated tributaries
- Mixed hardwood forest varying in size and age

Visual Character
- Residential, commercial/industrial, and forest

VARIATION DESCRIPTION

Adjacent Land Use
- Residential, Commercial/Industrial
- CT Protected/Open Space (Fin, Fur, & Feather Club, Inc.)
- Utility Right-of-Way (CL&P overhead transmission line between Willimantic Road and existing structure 9107)

Wetlands, Watercourses and Waterways
- Wetland Nos.: W22-31, W22-32, W20-80, W20-81, W20-82, W20-83, W20-84
- Wetland Cover Types: Palustrine Scrub-Shrub Wetland (PSS), Palustrine Forested Wetland (PFO), Open Water (OW)
- Stream Nos.: S22-13, S20-25, S20-26, S20-27

Vegetation
- Mixed hardwood trees, shrubs, saplings, herbaceous plants and lawns along Willimantic Road
- Upland and wetland forest, and open field-shrub land within existing ROW

Existing Ledge, Cut and Fill
- Cuts in hill sides and/or hill tops for road construction
- Fill material adjacent to river/stream crossings

Terrain
- Flat alluvial plains to hilly

Existing Right-of-Way Width
- 300 feet

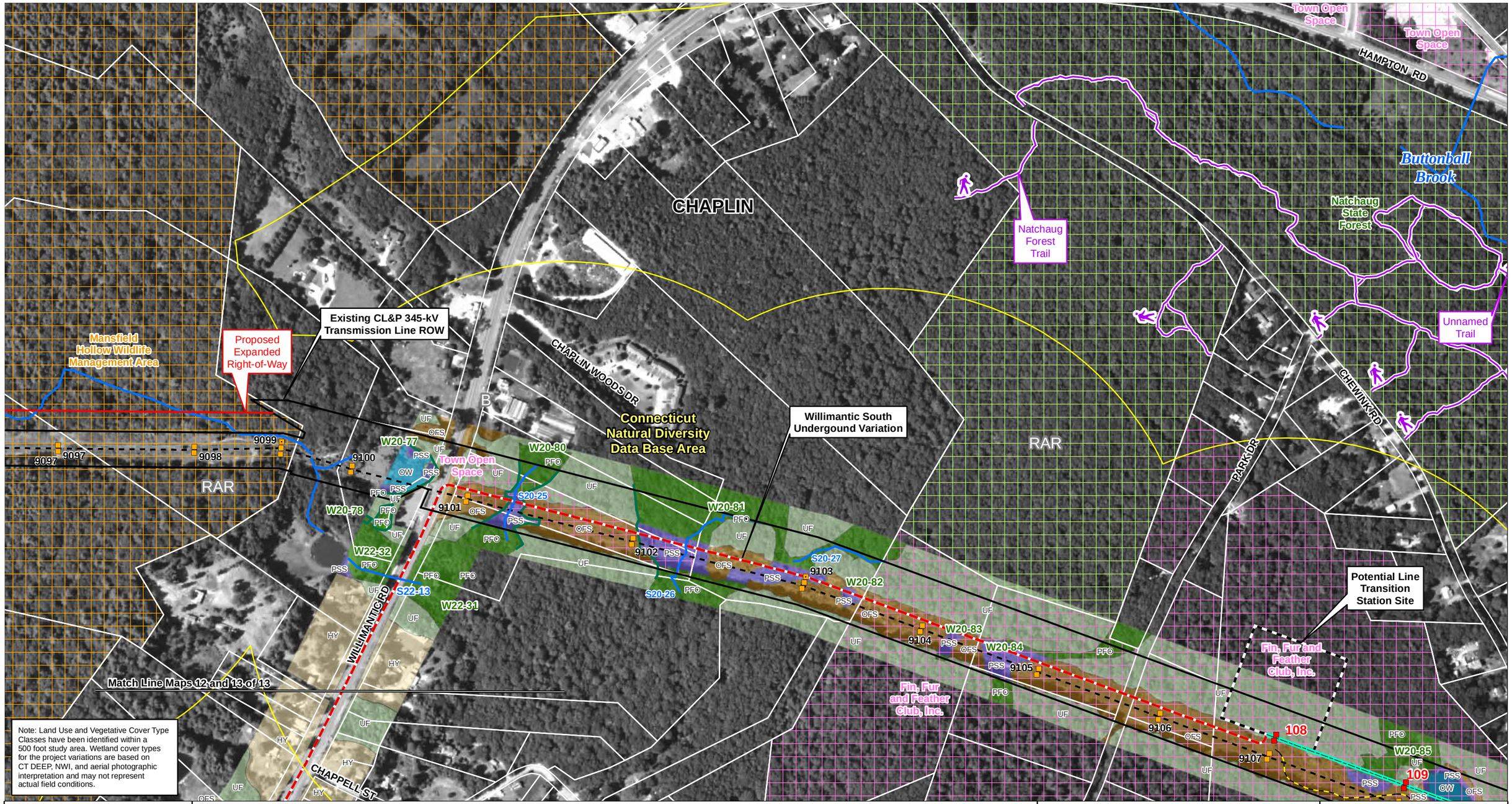
Existing Managed Right-of-Way Width
- 140 feet

Additional Managed Right-of-Way Width Required
- 0 (cable duct bank) to 40 feet (splice vaults not shown on cross –section)

Additional Land Acquisition Required
- Up to 4 acres private property for line transition station

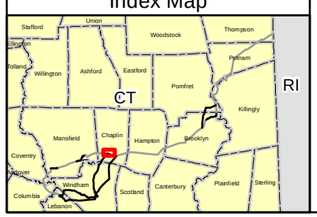
Road (Aligned Within or Adjacent To) /Major Utility Crossings
- Willimantic Road (U.S. Route 6), four lanes

Note: This line-route variation would interconnect to the Proposed Route near existing structure 9107. Refer to Ex. 2, Mapsheet 11 of 40 for the Proposed Route configuration in this area.



Note: Land Use and Vegetative Cover Type Classes have been identified within a 500 foot study area. Wetland cover types for the project variations are based on CT DEEP, NWI, and aerial photographic interpretation and may not represent actual field conditions.

Index Map



- Right-of-Way (Existing)
- Proposed 345-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- Existing Structure (9001)
- Existing Structure (Guyed)
- Proposed Structure (1)
- Proposed Structure (Guyed)
- Municipal/Private Park or Open Space
- Parcels
- Town/State Boundary
- Potential Access Road
- Northeast Utilities Property
- Historic District
- State Forest or Park
- Wildlife Area or Sanctuary
- R80 Zoning Designation
- 100-Year Flood Zone
- Wetland Boundary (W20-1)
- Watercourse (S20-68)
- Potential Line Transition Station
- 345-kV UG Variation
- Connecticut Natural Diversity Data Base Area

Land Use/Vegetative Cover Type

- Emergent Wetland (PEM)
- Forested Wetland (PFO)
- Scrub - Shrub Wetland (PSS)
- Open Field-Shrub Land (OFS)
- Commercial/Industrial (CI)
- Agricultural (AG)
- Other (OT)
- Open Water (OW)
- House/Yard (HY)
- Upland Forest (UF)
- State Wetland (SW)

N W E S

Data Source: CT NAIP 2010 Aerial Imagery; CT DEEP 2010; B&McD 2010; AECOM 2007-2011; FEMA Flood 2009; WINCOG Parcels 2010.

1:4,800

0 400 800 Feet

Interstate Reliability Project

Willimantic South Underground Variation

Mapsheet 13 of 13

Connecticut Light & Power
A Northeast Utilities Company

AECOM

Date: December 2011